


abia Treponema Ab

Version number: 1.2

Date of compilation: 29.05.2020

Kit contents

Name of substance	Identifier	Hazard class and category	Hazard statement	Pictograms
abia Treponema Ab T. pallidum Ag coated plate	Internal code MP.009.01.3			
abia Treponema Ab Conjugate (concentrated 11-fold)	Internal code CJ.009.12.3 CJ.009.30.3			
abia Treponema Ab Conjugate diluent	Internal code CD.009.12.3 CD.009.20.3			
abia Treponema Ab Sample diluent	Internal code SD.009.14.3 SD.009.25.3			
abia Treponema Ab Positive control (inactivated)	Internal code PC.009.25.3			
abia Treponema Ab Negative control (inactivated)	Internal code NC.009.25.3			
abia Washing solution (concentrated 25-fold)	Internal code WS.001.50.3 WS.001.12.3			
abia Treponema Ab TMB (concentrated 11-fold)	Internal code SA.009.25.3 SA.009.35.3			
abia Substrate buffer	Internal code SB.001.25.3 SB.001.70.3			
abia Stopping reagent 0.2M	Internal code SR.020.25.3 SR.020.90.3	3.2 Skin Irrit. 2 3.3 Eye Irrit. 2	H315 H319	

abia Treponema Ab T. pallidum Ag coated plate

Version number: GHS 1.0

Date of compilation: 26.04.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name abia Treponema Ab T. pallidum Ag coated plate
Reference number(s) MP.009.01.3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet

AB Diagnostic Systems GmbH
Sportfliegerstraße 4
DE-12487 Berlin
Germany

Telephone: +49 (0) 30 208 987 160
Telefax: +49 (0) 30 208 987 199
e-mail: info@ab-ds.de
Website: www.ab-ds.de

1.4 Emergency telephone number

Emergency information service +49 (0) 30 208 987 10
This number is only available during office hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)
This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Additional information

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)
not required

2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

abia Treponema Ab T. pallidum Ag coated plate

Version number: GHS 1.0

Date of compilation: 26.04.2017

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO_x)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

abia Treponema Ab T. pallidum Ag coated plate

Version number: GHS 1.0

Date of compilation: 26.04.2017

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Sawdust, Kieselgur (diatomite), Sand, Universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

7.3 Specific end use(s)

See section 16 for a general overview.

abia Treponema Ab T. pallidum Ag coated plate

Version number: GHS 1.0

Date of compilation: 26.04.2017

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

These information are not available.

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	different
Odour	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapour pressure	not determined

abia Treponema Ab T. pallidum Ag coated plate

Version number: GHS 1.0

Date of compilation: 26.04.2017

Density	not determined
Vapour density	this information is not available
Relative density	information on this property is not available

Solubility(ies)

- Water solubility	miscible in any proportion
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Partition coefficient

- n-octanol/water (log KOW)	this information is not available
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Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

9.2 Other information

Solvent content	0 %
Solid content	0 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

abia Treponema Ab T. pallidum Ag coated plate

Version number: GHS 1.0

Date of compilation: 26.04.2017

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. WGK 1, slightly hazardous to water (Germany)

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

abia Treponema Ab T. pallidum Ag coated plate

Version number: GHS 1.0

Date of compilation: 26.04.2017

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 Transport hazard class(es)

Class -

14.4 Packing group not relevant

14.5 Environmental hazards

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

abia Treponema Ab T. pallidum Ag coated plate

Version number: GHS 1.0

Date of compilation: 26.04.2017

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant provisions of the European Union (EU)

Deco-Paint Directive (2004/42/EC)

VOC content	0 %
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Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	0 %
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National regulations (Germany)

Administrative Regulation on Substances Hazardous to Water (VwVwS)

Water hazard class - WHC 1 slightly hazardous to water - classification acc. to annex 3/annex 4 (VwVwS)
(Wassergefährdungsklasse)

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
	not assigned		100 wt%			

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 12 (non-combustible liquids)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals

abia Treponema Ab T. pallidum Ag coated plate

Version number: GHS 1.0

Date of compilation: 26.04.2017

Abbr.	Descriptions of used abbreviations
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
TRGS	Technische Regeln für GefahrStoffe (technical rules for hazardous substances, Germany)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

abia Treponema Ab Conjugate (concentrated 11-fold)

Version number: GHS 2.0
Replaces version of: 28.10.2016 (GHS 1)

Revision: 26.04.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name abia Treponema Ab Conjugate (concentrated 11-fold)
Reference number(s) CJ.009.12.3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet

AB Diagnostic Systems GmbH
Sportfliegerstraße 4
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Telephone: +49 (0) 30 208 987 160
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e-mail: info@ab-ds.de
Website: www.ab-ds.de

1.4 Emergency telephone number

Emergency information service +49 (0) 30 208 987 10
This number is only available during office hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

For full text of abbreviations: see SECTION 16.

Additional information

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word not required

- Pictograms not required

- Supplemental hazard information

EUH208 Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1). May produce an allergic reaction.

2.3 Other hazards

There is no additional information.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

abia Treponema Ab Conjugate (concentrated 11-fold)

Version number: GHS 2.0
Replaces version of: 28.10.2016 (GHS 1)

Revision: 26.04.2017








SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
99.8% Ethanol	CAS No 64-17-5	< 1	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319	 
4-Dimethylaminoanti-pyrim	CAS No 58-15-1	< 1	Acute Tox. 3 / H301 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335	
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)	CAS No 55965-84-9 Index No 613-167-00-5	< 1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	  
Gentamycinsulfat	CAS No 1405-41-0	< 1	Resp. Sens. 1 / H334 Skin Sens. 1 / H317	
Modified alkyl carboxylate (ProClin 300)		< 1	Aquatic Chronic 4 / H413	

Name of substance	Identifier	Specific Conc. Limits	M-Factors
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)	CAS No 55965-84-9	Skin Corr. 1B; H314: C ≥ 0,6 % Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 % Eye Dam. 1; H318: C ≥ 0,6 % Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 % Skin Sens. 1; H317: C ≥ 0,0015 %	

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

abia Treponema Ab Conjugate (concentrated 11-fold)

Version number: GHS 2.0
Replaces version of: 28.10.2016 (GHS 1)

Revision: 26.04.2017

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Sawdust, Kieselgur (diatomite), Sand, Universal binder

abia Treponema Ab Conjugate (concentrated 11-fold)

Version number: GHS 2.0
Replaces version of: 28.10.2016 (GHS 1)

Revision: 26.04.2017

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Control of effects

Protect against external exposure, such as

Frost

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)								
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Source
DE	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	MAK		0,2		0,4	DFG
DE	glycerine	56-81-5	AGW		200		400	TRGS 900
DE	glycerine	56-81-5	MAK		200		400	DFG

Notation

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified
TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

abia Treponema Ab Conjugate (concentrated 11-fold)

Version number: GHS 2.0
 Replaces version of: 28.10.2016 (GHS 1)

Revision: 26.04.2017

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	different
Odour	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapour pressure	not determined
Density	not determined
Vapour density	this information is not available

abia Treponema Ab Conjugate (concentrated 11-fold)

Version number: GHS 2.0
Replaces version of: 28.10.2016 (GHS 1)

Revision: 26.04.2017

Relative density	information on this property is not available
Solubility(ies)	not determined
Partition coefficient	
- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

9.2 Other information

Solvent content	96,72 %
Solid content	3,283 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

abia Treponema Ab Conjugate (concentrated 11-fold)

Version number: GHS 2.0
 Replaces version of: 28.10.2016 (GHS 1)

Revision: 26.04.2017

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
4-Dimethylaminoantipyrin	58-15-1	oral	100 mg/kg
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)	55965-84-9	oral	100 mg/kg
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)	55965-84-9	dermal	300 mg/kg
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)	55965-84-9	inhalation: vapour	3 mg/l/4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

abia Treponema Ab Conjugate (concentrated 11-fold)

Version number: GHS 2.0
Replaces version of: 28.10.2016 (GHS 1)

Revision: 26.04.2017

SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. WGK 3, strongly hazardous to water (Germany)

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number not subject to transport regulations

14.2 UN proper shipping name not relevant

14.3 Transport hazard class(es)

Class -

14.4 Packing group not relevant

14.5 Environmental hazards

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

abia Treponema Ab Conjugate (concentrated 11-fold)

Version number: GHS 2.0
 Replaces version of: 28.10.2016 (GHS 1)

Revision: 26.04.2017

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant provisions of the European Union (EU)

Deco-Paint Directive (2004/42/EC)

VOC content	30,18 %
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Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	30,18 %
-------------	---------

National regulations (Germany)

Administrative Regulation on Substances Hazardous to Water (VwVwS)

Water hazard class - WHC 3 strongly hazardous to water - classification acc. to annex 3/annex 4 (VwVwS)
 (Wassergefährdungsklasse)

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances		10 - < 25 wt%	0,5 kg/h	50 mg/m ³	3)

Notation

3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 10 (combustible liquids)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

abia Treponema Ab Conjugate (concentrated 11-fold)

 Version number: GHS 2.0
 Replaces version of: 28.10.2016 (GHS 1)

Revision: 26.04.2017

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.1	Product name: CJ.009, Conjugate x 11	Product name: abia Treponema Ab Conjugate (concentrated 11-fold)	yes
1.1	Reference number(s)	Reference number(s): CJ.009.12.3	yes
2.1	Classification of the substance or mixture	Classification of the substance or mixture: For full text of abbreviations: see SECTION 16.	yes
2.1	Classification according to Regulation (EC) No 1272/2008 (CLP): This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.		yes
2.1		Additional information: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes
2.2	Labelling according to Regulation (EC) No 1272/2008 (CLP): not required	Labelling according to Regulation (EC) No 1272/2008 (CLP)	yes
2.2	Labelling according to Regulation (EC) No 1272/2008 (CLP): not required	Labelling according to Regulation (EC) No 1272/2008 (CLP)	yes
2.2		- Signal word: not required	yes
2.2		- Pictograms: not required	yes
2.2		- Supplemental hazard information: change in the listing (table)	yes
2.3	Other hazards: of no significance	Other hazards: There is no additional information.	yes
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
5.2	Hazardous combustion products: Nitrogen oxides (NOx)	Hazardous combustion products: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂)	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
9.2	Solvent content: 97.09 %	Solvent content: 96,72 %	yes
9.2	Solid content: 2.914 %	Solid content: 3,283 %	yes

abia Treponema Ab Conjugate (concentrated 11-fold)

 Version number: GHS 2.0
 Replaces version of: 28.10.2016 (GHS 1)

Revision: 26.04.2017

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
11.1	Classification according to GHS (1272/2008/EC, CLP): This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.	Classification according to GHS (1272/2008/EC, CLP)	yes
11.1	Classification according to GHS (1272/2008/EC, CLP): This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.	Classification according to GHS (1272/2008/EC, CLP)	yes
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)	yes
15.1	VOC content: 0.09769 %	VOC content: 30,18 %	yes
15.1	VOC content: 0.09769 %	VOC content: 30,18 %	yes
15.1		Technical instructions on air quality control (Germany): change in the listing (table)	yes
15.1	Storage class (LGK): 12 (non-combustible liquids)	Storage class (LGK): 10 (combustible liquids)	yes
16		List of relevant phrases (code and full text as stated in chapter 2 and 3): change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Workplace exposure limit
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DFG	Deutsche Forschungsgemeinschaft MAK- und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances

abia Treponema Ab Conjugate (concentrated 11-fold)

Version number: GHS 2.0
Replaces version of: 28.10.2016 (GHS 1)

Revision: 26.04.2017

Abbr.	Descriptions of used abbreviations
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Resp. Sens.	Respiratory sensitisation
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

abia Treponema Ab Conjugate (concentrated 11-fold)

Version number: GHS 2.0
Replaces version of: 28.10.2016 (GHS 1)

Revision: 26.04.2017

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

abia Treponema Ab Conjugate diluent

Version number: GHS 3.0
Replaces version of: 02.11.2016 (GHS 2)

Revision: 26.04.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name abia Treponema Ab Conjugate diluent
Reference number(s) CD.009.12.3, CD.009.20.3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet

AB Diagnostic Systems GmbH
Sportfliegerstraße 4
DE-12487 Berlin
Germany

Telephone: +49 (0) 30 208 987 160
Telefax: +49 (0) 30 208 987 199
e-mail: info@ab-ds.de
Website: www.ab-ds.de

1.4 Emergency telephone number

Emergency information service +49 (0) 30 208 987 10
This number is only available during office hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)
This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)
not required

2.3 Other hazards

of no significance

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)












3.2 Mixtures

Description of the mixture

abia Treponema Ab Conjugate diluent

 Version number: GHS 3.0
 Replaces version of: 02.11.2016 (GHS 2)

Revision: 26.04.2017

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
ethanediol	CAS No 107-21-1 EC No 203-473-3 Index No 603-027-00-1 REACH Reg. No 01-2119456816-28- xxxx	1 - < 5	Acute Tox. 4 / H302 STOT RE 2 / H373	 
Triton X-100	CAS No 9002-93-1	< 1	Acute Tox. 4 / H302 Eye Irrit. 2 / H319 Aquatic Chronic 2 / H411	 
EDTA disodium salt di-hydrat	CAS No 6381-92-6 EC No 205-358-3	< 1	Acute Tox. 4 / H332 STOT RE 2 / H373	 
Ethylmercurithiosalicylic acid, sodium salt	CAS No 54-64-8	< 1	Acute Tox. 2 / H300 Acute Tox. 1 / H310 Acute Tox. 2 / H330 STOT RE 2 / H373 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	  
Naphthol Yellow S	CAS No 846-70-8 EC No 212-690-2	< 1	Skin Sens. 1 / H317 STOT RE 2 / H373	 

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

abia Treponema Ab Conjugate diluent

Version number: GHS 3.0
Replaces version of: 02.11.2016 (GHS 2)

Revision: 26.04.2017

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Sawdust, Kieselgur (diatomite), Sand, Universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

abia Treponema Ab Conjugate diluent

 Version number: GHS 3.0
 Replaces version of: 02.11.2016 (GHS 2)

Revision: 26.04.2017

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Control of effects

Protect against external exposure, such as
Frost

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)								
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Source
DE	ethanediol	107-21-1	AGW	10	26	20	52	TRGS 900
EU	ethanediol (ethylene glycol)	107-21-1	IOELV	20	52	40	104	2000/39/EC

Notation

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
ethanediol	107-21-1	DNEL	35 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
ethanediol	107-21-1	DNEL	106 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
ethanediol	107-21-1	PNEC	10 mg/l	aquatic organisms	freshwater	short-term (single instance)

abia Treponema Ab Conjugate diluent

 Version number: GHS 3.0
 Replaces version of: 02.11.2016 (GHS 2)

Revision: 26.04.2017

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
ethanediol	107-21-1	PNEC	1 mg/l	aquatic organisms	marine water	short-term (single instance)
ethanediol	107-21-1	PNEC	10 mg/l	aquatic organisms	water	intermittent release
ethanediol	107-21-1	PNEC	199,5 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ethanediol	107-21-1	PNEC	37 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
ethanediol	107-21-1	PNEC	3,7 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
ethanediol	107-21-1	PNEC	1,53 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

abia Treponema Ab Conjugate diluent

 Version number: GHS 3.0
 Replaces version of: 02.11.2016 (GHS 2)

Revision: 26.04.2017

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	different
Odour	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	197,4 °C at 1.013 hPa
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapour pressure	0,123 hPa at 25 °C
Density	not determined
Vapour density	this information is not available
Relative density	information on this property is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	398 °C
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

abia Treponema Ab Conjugate diluent

Version number: GHS 3.0
 Replaces version of: 02.11.2016 (GHS 2)

Revision: 26.04.2017

9.2 Other information

Solvent content	84,86 %
Solid content	15,26 %
Temperature class (EU, acc. to ATEX)	T2 (maximum permissible surface temperature on the equipment: 300°C)

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
ethanediol	107-21-1	oral	500 mg/kg
Triton X-100	9002-93-1	oral	500 mg/kg
EDTA disodium salt dihydrat	6381-92-6	inhalation: dust/mist	1,5 mg/l/4h
Ethylmercurithiosalicylic acid, sodium salt	54-64-8	oral	5 mg/kg
Ethylmercurithiosalicylic acid, sodium salt	54-64-8	dermal	5 mg/kg
Ethylmercurithiosalicylic acid, sodium salt	54-64-8	inhalation: dust/mist	0,05 mg/l/4h

abia Treponema Ab Conjugate diluent

Version number: GHS 3.0
Replaces version of: 02.11.2016 (GHS 2)

Revision: 26.04.2017

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. WGK 2, hazardous to water (Germany)

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

abia Treponema Ab Conjugate diluent

Version number: GHS 3.0
Replaces version of: 02.11.2016 (GHS 2)

Revision: 26.04.2017

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- | | |
|--|--------------------------------------|
| 14.1 UN number | not subject to transport regulations |
| 14.2 UN proper shipping name | not relevant |
| 14.3 Transport hazard class(es) | |
| Class | - |
| 14.4 Packing group | not relevant |
| 14.5 Environmental hazards | |
| 14.6 Special precautions for user | |
| There is no additional information. | |
| 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code | |
| The cargo is not intended to be carried in bulk. | |

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

abia Treponema Ab Conjugate diluent

 Version number: GHS 3.0
 Replaces version of: 02.11.2016 (GHS 2)

Revision: 26.04.2017

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant provisions of the European Union (EU)

Deco-Paint Directive (2004/42/EC)

VOC content	82,65 %
-------------	---------

Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	82,65 %
-------------	---------

National regulations (Germany)

Administrative Regulation on Substances Hazardous to Water (VwVwS)

 Water hazard class - WHC 2 hazardous to water - classification acc. to annex 3/annex 4 (VwVwS)
 (Wassergefährdungsklasse)

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances		≥ 25 wt%	0,5 kg/h	50 mg/m ³	3)

Notation

 3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 10 (combustible liquids)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.1	Product name: CD.009, Conjugate diluent	Product name: abia Treponema Ab Conjugate diluent	yes
1.1		Reference number(s): CD.009.12.3, CD.009.20.3	yes
3.2		Description of the mixture: change in the listing (table)	yes
8.1	Control parameters: These information are not available.	Control parameters	yes
8.1	Control parameters: These information are not available.	Control parameters	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
9.2	Solvent content: 85.36 %	Solvent content: 84,86 %	yes

abia Treponema Ab Conjugate diluent

 Version number: GHS 3.0
 Replaces version of: 02.11.2016 (GHS 2)

Revision: 26.04.2017

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
9.2	Solid content: 14.46 %	Solid content: 15,26 %	yes
12.1	Toxicity: Shall not be classified as hazardous to the aquatic environment.	Toxicity: Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. WGK 2, hazardous to water (Germany)	yes
15.1	VOC content: 2.949 %	VOC content: 82,65 %	yes
15.1	VOC content: 2.949 %	VOC content: 82,65 %	yes
15.1		National regulations (Germany)	yes
15.1		Administrative Regulation on Substances Hazardous to Water (VwVwS)	yes
15.1		Water hazard class - WHC (Wassergefährdungsklasse): 2 hazardous to water - classification acc. to annex 3/annex 4 (VwVwS)	yes
15.1		Technical instructions on air quality control (Germany)	yes
15.1		Technical instructions on air quality control (Germany): change in the listing (table)	yes
15.1		Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)	yes
15.1		Storage class (LGK): 10 (combustible liquids)	yes
16		Abbreviations and acronyms: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Comission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Workplace exposure limit
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)

abia Treponema Ab Conjugate diluent

 Version number: GHS 3.0
 Replaces version of: 02.11.2016 (GHS 2)

Revision: 26.04.2017

Abbr.	Descriptions of used abbreviations
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

abia Treponema Ab Conjugate diluent

Version number: GHS 3.0
Replaces version of: 02.11.2016 (GHS 2)

Revision: 26.04.2017

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

abia Treponema Ab Sample diluent

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name abia Treponema Ab Sample diluent
Reference number(s) SD.009.14.3, SD.009.25.3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet

AB Diagnostic Systems GmbH
Sportfliegerstraße 4
DE-12487 Berlin
Germany

Telephone: +49 (0) 30 208 987 160
Telefax: +49 (0) 30 208 987 199
e-mail: info@ab-ds.de
Website: www.ab-ds.de

1.4 Emergency telephone number

Emergency information service +49 (0) 30 208 987 10
This number is only available during office hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)
This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)
not required

2.3 Other hazards

Results of PBT and vPvB assessment
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.




SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures



Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
sodium azide	CAS No 26628-22-8 EC No 247-852-1 Index No	< 1	Acute Tox. 2 / H300 Acute Tox. 1 / H310 Acute Tox. 2 / H330 STOT RE 2 / H373 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	  

abia Treponema Ab Sample diluent

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
	011-004-00-7 REACH Reg. No 01-2119457019-37- xxxx			
Hydrogen chloride	CAS No 7647-01-0 EC No 231-595-7 Index No 017-002-00-2 REACH Reg. No 01-2120066883-46- xxxx	< 1	Met. Corr. 1 / H290 Skin Corr. 1B / H314 Eye Dam. 1 / H318 STOT SE 3 / H335	
Ethylmercurithiosalicylic acid, sodium salt	CAS No 54-64-8 Index No 080-004-00-7	< 1	Acute Tox. 2 / H300 Acute Tox. 1 / H310 Acute Tox. 2 / H330 STOT RE 2 / H373 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

Name of substance	Identifier	Specific Conc. Limits	M-Factors
Hydrogen chloride	CAS No 7647-01-0 EC No 231-595-7	Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Dam. 1; H318: C ≥ 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 % STOT SE 3; H335: C ≥ 10 %	
Ethylmercurithiosalicylic acid, sodium salt	CAS No 54-64-8	Acute Tox. 1; H310: C ≥ 0 % Acute Tox. 2; H310: 0 % ≤ C < 0 % Acute Tox. 3; H311: 0 % ≤ C < 0 % Acute Tox. 4; H312: 0 % ≤ C < 0 % Acute Tox. 2; H330: C ≥ 0 % Acute Tox. 3; H331: 0 % ≤ C < 0 % Acute Tox. 4; H332: 0 % ≤ C < 0 %	

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Wash with water. In case of skin contact with molten plastic cool rapidly with water. Do not attempt removal of plastic without medical assistance.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

abia Treponema Ab Sample diluent

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Burning marks in skin contact with molten plastic.

4.3 Indication of any immediate medical attention and special treatment needed

Severe burning of skin. Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

abia Treponema Ab Sample diluent

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres
To be stored dry.

Control of effects

Protect against external exposure, such as
Frost

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
DE	sodium azide	26628-22-8	AGW		0,2		0,4				TRGS 900
DE	chlorohydric acid	7647-01-0	MAK	2	3	4	6				DFG
DE	hydrogen chloride	7647-01-0	AGW	2	3	4	6				TRGS 900
EU	sodium azide	26628-22-8	IOELV		0,1		0,3				2000/39/EC
EU	hydrogen chloride	7647-01-0	IOELV	5	8	10	15				2000/39/EC

Notation

Ceiling-C

STEL

TWA

ceiling value is a limit value above which exposure should not occur
 short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
 time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours
 time-weighted average (unless otherwise specified)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

abia Treponema Ab Sample diluent

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	various
Odour	characteristic

Other safety parameters

pH (value)	7,4 - 7,6
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	not determined
Vapour pressure	not determined
Density	not determined
Vapour density	this information is not available
Relative density	information on this property is not available

abia Treponema Ab Sample diluent

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Solubility(ies)	not determined
Partition coefficient	
- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

9.2 Other information

Solvent content	7,085 %
Solid content	3,924 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not allow product to remain in barrel at elevated temperatures for extended period of time.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5. Oxides of hydrocarbon fragments.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

abia Treponema Ab Sample diluentVersion number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Acute toxicity

Shall not be classified as acutely toxic. Carbon black: fish: LC50(96h)>100mg/l, (Brachydanio rerio), OECD203, water flea: EC50(24h)>5600 mg/l, (Daphnia magna), OECD202, algae: EC50 (72h)>10000 mg/l (Scenedesmus subspicatus), LD50 (oral, rat): > 8000 mg/kg. In the compound, the carbon black is bound in the base polymer.

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
sodium azide	26628-22-8	oral	5 mg/kg
sodium azide	26628-22-8	dermal	5 mg/kg
sodium azide	26628-22-8	inhalation: dust/mist	0,05 mg/l/4h
Ethylmercurithiosalicylic acid, sodium salt	54-64-8	oral	5 mg/kg

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic. Carbon black is listed as a possible carcinogen to humans - group 2B - by the International Agency for Research on Cancer (IARC), but is not listed as a carcinogen by U.S. National Toxicity Program (NTP) and U.S. Occupational Safety and Health Administration (OSHA).

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information**12.1 Toxicity**

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 3, highly hazardous to water (Germany)

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

abia Treponema Ab Sample diluent

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1	UN number	Not subject to transport regulations
14.2	UN proper shipping name	not relevant
14.3	Transport hazard class(es)	none
14.4	Packing group	not relevant
14.5	Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations
14.6	Special precautions for user	There is no additional information.
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code	The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

abia Treponema Ab Sample diluent

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Deco-Paint Directive (2004/42/EC)

VOC content	7,077 %
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Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	7,077 %
-------------	---------

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

 Wassergefährdungsklasse, WGK 3 highly hazardous to water
 (water hazard class)

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances		5 - < 10 wt%	0,5 kg/h	50 mg/m ³	3)

Notation

 3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 10 (combustible liquids)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.3	Other hazards: of no significance	Other hazards	yes
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

abia Treponema Ab Sample diluent

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
4.1	General notes: Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.	General notes: Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Wash with water. In case of skin contact with molten plastic cool rapidly with water. Do not attempt removal of plastic without medical assistance.	yes
4.2	Most important symptoms and effects, both acute and delayed: Symptoms and effects are not known to date.	Most important symptoms and effects, both acute and delayed: Burning marks in skin contact with molten plastic.	yes
4.3	Indication of any immediate medical attention and special treatment needed: none	Indication of any immediate medical attention and special treatment needed: Severe burning of skin. Treat symptomatically.	yes
7.2		Managing of associated risks	yes
7.2		- Explosive atmospheres: To be stored dry.	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
9.1	Colour: different	Colour: various	yes
10.4	Conditions to avoid: There are no specific conditions known which have to be avoided.	Conditions to avoid: Do not allow product to remain in barrel at elevated temperatures for extended period of time.	yes
10.6	Hazardous decomposition products: Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.	Hazardous decomposition products: Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5. Oxides of hydrocarbon fragments.	yes
11.1	Acute toxicity: Shall not be classified as acutely toxic.	Acute toxicity: Shall not be classified as acutely toxic. Carbon black: fish: LC50(96h)>100mg/l, (Brachydanio rerio), OECD203, water flea: EC50(24h)>5600 mg/l, (Daphnia magna), OECD202, algae: EC50 (72h)>10000 mg/l (Scenedesmus subspicatus), LD50 (oral, rat): > 8000 mg/kg. In the compound, the carbon black is bound in the base polymer.	yes
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)	yes
11.1	Carcinogenicity: Shall not be classified as carcinogenic.	Carcinogenicity: Shall not be classified as carcinogenic. Carbon black is listed as a possible carcinogen to humans - group 2B - by the International Agency for Research on Cancer (IARC), but is not listed as a carcinogen by U.S. National Toxicity Program (NTP) and U.S. Occupational Safety and Health Administration (OSHA).	yes

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

abia Treponema Ab Sample diluent

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
12.1	Toxicity: Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. WGK 3, strongly hazardous to water (Germany)	Toxicity: Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 3, highly hazardous to water (Germany)	yes
14.3	Transport hazard class(es)	Transport hazard class(es): none	yes
14.3	Class: -		yes
14.5	Environmental hazards	Environmental hazards: non-environmentally hazardous acc. to the dangerous goods regulations	yes
15.1	Water hazard class - WHC (Wassergefährdungskategorie): 3 strongly hazardous to water - classification acc. to annex 3/annex 4 (VwVwS)	Wassergefährdungskategorie, WGK (water hazard class): 3 highly hazardous to water	yes
16		Abbreviations and acronyms: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Comission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Workplace exposure limit
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DFG	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam.	Seriously damaging to the eye

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

abia Treponema Ab Sample diluent

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Abbr.	Descriptions of used abbreviations
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
Met. Corr.	Substance or mixture corrosive to metals
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

abia Treponema Ab Sample diluent

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H290	May be corrosive to metals.
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

abia Treponema Ab Positive control (inactivated)

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name abia Treponema Ab Positive control (inactivated)
Reference number(s) PC.009.25.3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet

AB Diagnostic Systems GmbH
Sportfliegerstraße 4
DE-12487 Berlin
Germany

Telephone: +49 (0) 30 208 987 160
Telefax: +49 (0) 30 208 987 199
e-mail: info@ab-ds.de
Website: www.ab-ds.de

1.4 Emergency telephone number

Emergency information service +49 (0) 30 208 987 10
This number is only available during office hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)
This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)
not required

2.3 Other hazards

Results of PBT and vPvB assessment
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.




SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures


Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
sodium azide	CAS No 26628-22-8 EC No 247-852-1 Index No	< 1	Acute Tox. 2 / H300 Acute Tox. 1 / H310 Acute Tox. 2 / H330 STOT RE 2 / H373 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	  

abia Treponema Ab Positive control (inactivated)

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
	011-004-00-7 REACH Reg. No 01-2119457019-37- xxxx			
Ethylmercurithiosalicylic acid, sodium salt	CAS No 54-64-8 Index No 080-004-00-7	< 1	Acute Tox. 2 / H300 Acute Tox. 1 / H310 Acute Tox. 2 / H330 STOT RE 2 / H373 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

Name of substance	Identifier	Specific Conc. Limits	M-Factors
Ethylmercurithiosalicylic acid, sodium salt	CAS No 54-64-8	Acute Tox. 1; H310: C ≥ 0 % Acute Tox. 2; H310: 0 % ≤ C < 0 % Acute Tox. 3; H311: 0 % ≤ C < 0 % Acute Tox. 4; H312: 0 % ≤ C < 0 % Acute Tox. 2; H330: C ≥ 0 % Acute Tox. 3; H331: 0 % ≤ C < 0 % Acute Tox. 4; H332: 0 % ≤ C < 0 %	

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Wash with water. In case of skin contact with molten plastic cool rapidly with water. Do not attempt removal of plastic without medical assistance.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Burning marks in skin contact with molten plastic.

4.3 Indication of any immediate medical attention and special treatment needed

Severe burning of skin. Treat symptomatically.

abia Treponema Ab Positive control (inactivated)

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

abia Treponema Ab Positive control (inactivated)

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres
To be stored dry.

Control of effects

Protect against external exposure, such as
Frost

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
DE	sodium azide	26628-22-8	AGW		0,2		0,4				TRGS 900
EU	sodium azide	26628-22-8	IOELV		0,1		0,3				2000/39/EC

Notation

 Ceiling-C
 STEL

ceiling value is a limit value above which exposure should not occur
 short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours
 time-weighted average (unless otherwise specified)

8.2 Exposure controls

Appropriate engineering controls
 General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

abia Treponema Ab Positive control (inactivated)

Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	various
Odour	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	not determined
Vapour pressure	not determined
Density	not determined
Vapour density	this information is not available
Relative density	information on this property is not available
Solubility(ies)	not determined

abia Treponema Ab Positive control (inactivated)

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

9.2 Other information

Solvent content	99,38 %
Solid content	1,414 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not allow product to remain in barrel at elevated temperatures for extended period of time.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5. Oxides of hydrocarbon fragments.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Shall not be classified as acutely toxic. Carbon black: fish: LC50(96h)>100mg/l, (Brachydanio rerio), OECD203, water flea: EC50(24h)>5600 mg/l, (Daphnia magna), OECD202, algae: EC50 (72h)>10000 mg/l (Scenedesmus subspicatus), LD50 (oral, rat): > 8000 mg/kg. In the compound, the carbon black is bound in the base polymer.

GHS of the United Nations, annex 4: May be harmful in contact with skin.

abia Treponema Ab Positive control (inactivated)

Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
sodium azide	26628-22-8	oral	5 mg/kg
sodium azide	26628-22-8	dermal	5 mg/kg
sodium azide	26628-22-8	inhalation: dust/mist	0,05 mg/l/4h
Ethylmercurithiosalicylic acid, sodium salt	54-64-8	oral	5 mg/kg

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic. Carbon black is listed as a possible carcinogen to humans - group 2B - by the International Agency for Research on Cancer (IARC), but is not listed as a carcinogen by U.S. National Toxicity Program (NTP) and U.S. Occupational Safety and Health Administration (OSHA).

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.
 Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 1, slightly hazardous to water (Germany)

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

abia Treponema Ab Positive control (inactivated)

Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- | | |
|--|---|
| 14.1 UN number | Not subject to transport regulations |
| 14.2 UN proper shipping name | not relevant |
| 14.3 Transport hazard class(es) | none |
| 14.4 Packing group | not relevant |
| 14.5 Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 Special precautions for user | There is no additional information. |
| 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code | The cargo is not intended to be carried in bulk. |

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Relevant provisions of the European Union (EU)
Deco-Paint Directive (2004/42/EC)

VOC content	99,38 %
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abia Treponema Ab Positive control (inactivated)

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	99,38 %
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National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

 Wassergefährdungsklasse, WGK 1 slightly hazardous to water
 (water hazard class)

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances		≥ 25 wt%	0,5 kg/h	50 mg/m ³	3)

Notation

 3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 10 (combustible liquids)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.3	Other hazards: of no significance	Other hazards	yes
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
4.1	General notes: Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.	General notes: Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Wash with water. In case of skin contact with molten plastic cool rapidly with water. Do not attempt removal of plastic without medical assistance.	yes
4.2	Most important symptoms and effects, both acute and delayed: Symptoms and effects are not known to date.	Most important symptoms and effects, both acute and delayed: Burning marks in skin contact with molten plastic.	yes

abia Treponema Ab Positive control (inactivated)

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
4.3	Indication of any immediate medical attention and special treatment needed: none	Indication of any immediate medical attention and special treatment needed: Severe burning of skin. Treat symptomatically.	yes
7.2		Managing of associated risks	yes
7.2		- Explosive atmospheres: To be stored dry.	yes
9.1	Colour: different	Colour: various	yes
10.4	Conditions to avoid: There are no specific conditions known which have to be avoided.	Conditions to avoid: Do not allow product to remain in barrel at elevated temperatures for extended period of time.	yes
10.6	Hazardous decomposition products: Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.	Hazardous decomposition products: Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5. Oxides of hydrocarbon fragments.	yes
11.1	Acute toxicity: Shall not be classified as acutely toxic.	Acute toxicity: Shall not be classified as acutely toxic. Carbon black: fish: LC50(96h)>100mg/l, (Brachydanio rerio), OECD203, water flea: EC50(24h)>5600 mg/l, (Daphnia magna), OECD202, algae: EC50 (72h)>10000 mg/l (Scenedesmus subspicatus), LD50 (oral, rat): > 8000 mg/kg. In the compound, the carbon black is bound in the base polymer. GHS of the United Nations, annex 4: May be harmful in contact with skin.	yes
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)	yes
11.1	Carcinogenicity: Shall not be classified as carcinogenic.	Carcinogenicity: Shall not be classified as carcinogenic. Carbon black is listed as a possible carcinogen to humans - group 2B - by the International Agency for Research on Cancer (IARC), but is not listed as a carcinogen by U.S. National Toxicity Program (NTP) and U.S. Occupational Safety and Health Administration (OSHA).	yes
12.1	Toxicity: Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. WGK Nwg, non-hazardous to water (Germany)	Toxicity: Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 1, slightly hazardous to water (Germany)	yes
14.3	Transport hazard class(es)	Transport hazard class(es): none	yes
14.3	Class: -		yes
14.5	Environmental hazards	Environmental hazards: non-environmentally hazardous acc. to the dangerous goods regulations	yes
15.1	Water hazard class - WHC (Wassergefährdungskategorie): nwg non-hazardous to water - classification acc. to annex 3/annex 4 (VwVwS)	Wassergefährdungskategorie, WGK (water hazard class): 1 slightly hazardous to water	yes

abia Treponema Ab Positive control (inactivated)

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
16		Abbreviations and acronyms: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Workplace exposure limit
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals

abia Treponema Ab Positive control (inactivated)

Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Abbr.	Descriptions of used abbreviations
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

abia Treponema Ab Negative control (inactivated)

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name abia Treponema Ab Negative control (inactivated)
Reference number(s) NC.009.25.3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet

AB Diagnostic Systems GmbH
Sportfliegerstraße 4
DE-12487 Berlin
Germany

Telephone: +49 (0) 30 208 987 160
Telefax: +49 (0) 30 208 987 199
e-mail: info@ab-ds.de
Website: www.ab-ds.de

1.4 Emergency telephone number

Emergency information service +49 (0) 30 208 987 10
This number is only available during office hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)
This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)
not required

2.3 Other hazards

Results of PBT and vPvB assessment
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.


SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures



Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
EDTA disodium salt dihydrat	CAS No 6381-92-6 EC No 205-358-3	< 1	Acute Tox. 4 / H332 STOT RE 2 / H373	

abia Treponema Ab Negative control (inactivated)

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
sodium azide	CAS No 26628-22-8 EC No 247-852-1 Index No 011-004-00-7 REACH Reg. No 01-2119457019-37-xxxx	< 1	Acute Tox. 2 / H300 Acute Tox. 1 / H310 Acute Tox. 2 / H330 STOT RE 2 / H373 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	
Ethylmercurithiosalicylic acid, sodium salt	CAS No 54-64-8 Index No 080-004-00-7	< 1	Acute Tox. 2 / H300 Acute Tox. 1 / H310 Acute Tox. 2 / H330 STOT RE 2 / H373 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

Name of substance	Identifier	Specific Conc. Limits	M-Factors
Ethylmercurithiosalicylic acid, sodium salt	CAS No 54-64-8	Acute Tox. 1; H310: C ≥ 0 % Acute Tox. 2; H310: 0 % ≤ C < 0 % Acute Tox. 3; H311: 0 % ≤ C < 0 % Acute Tox. 4; H312: 0 % ≤ C < 0 % Acute Tox. 2; H330: C ≥ 0 % Acute Tox. 3; H331: 0 % ≤ C < 0 % Acute Tox. 4; H332: 0 % ≤ C < 0 %	

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Wash with water. In case of skin contact with molten plastic cool rapidly with water. Do not attempt removal of plastic without medical assistance.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Burning marks in skin contact with molten plastic.

4.3 Indication of any immediate medical attention and special treatment needed

Severe burning of skin. Treat symptomatically.

abia Treponema Ab Negative control (inactivated)

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

abia Treponema Ab Negative control (inactivated)

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres
To be stored dry.

Control of effects

Protect against external exposure, such as
Frost

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
DE	sodium azide	26628-22-8	AGW		0,2		0,4				TRGS 900
EU	sodium azide	26628-22-8	IOELV		0,1		0,3				2000/39/EC

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur
STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours
time-weighted average (unless otherwise specified)

8.2 Exposure controls

Appropriate engineering controls
General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

abia Treponema Ab Negative control (inactivated)

Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	various
Odour	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	not determined
Vapour pressure	not determined
Density	not determined
Vapour density	this information is not available
Relative density	information on this property is not available
Solubility(ies)	not determined

abia Treponema Ab Negative control (inactivated)

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

9.2 Other information

Solvent content	98,6 %
Solid content	1,916 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not allow product to remain in barrel at elevated temperatures for extended period of time.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5. Oxides of hydrocarbon fragments.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Shall not be classified as acutely toxic. Carbon black: fish: LC50(96h)>100mg/l, (Brachydanio rerio), OECD203, water flea: EC50(24h)>5600 mg/l, (Daphnia magna), OECD202, algae: EC50 (72h)>10000 mg/l (Scenedesmus subspicatus), LD50 (oral, rat): > 8000 mg/kg. In the compound, the carbon black is bound in the base polymer.

GHS of the United Nations, annex 4: May be harmful in contact with skin.

abia Treponema Ab Negative control (inactivated)

Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
EDTA disodium salt dihydrat	6381-92-6	inhalation: vapour	11 mg/l/4h
EDTA disodium salt dihydrat	6381-92-6	inhalation: dust/mist	1,5 mg/l/4h
sodium azide	26628-22-8	oral	5 mg/kg
sodium azide	26628-22-8	dermal	5 mg/kg
sodium azide	26628-22-8	inhalation: dust/mist	0,05 mg/l/4h
Ethylmercurithiosalicylic acid, sodium salt	54-64-8	oral	5 mg/kg

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic. Carbon black is listed as a possible carcinogen to humans - group 2B - by the International Agency for Research on Cancer (IARC), but is not listed as a carcinogen by U.S. National Toxicity Program (NTP) and U.S. Occupational Safety and Health Administration (OSHA).

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.
 Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 1, slightly hazardous to water (Germany)

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

abia Treponema Ab Negative control (inactivated)

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- | | | |
|------|---|---|
| 14.1 | UN number | Not subject to transport regulations |
| 14.2 | UN proper shipping name | not relevant |
| 14.3 | Transport hazard class(es) | none |
| 14.4 | Packing group | not relevant |
| 14.5 | Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 | Special precautions for user | There is no additional information. |
| 14.7 | Transport in bulk according to Annex II of MARPOL and the IBC Code | The cargo is not intended to be carried in bulk. |

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

abia Treponema Ab Negative control (inactivated)

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant provisions of the European Union (EU)

Deco-Paint Directive (2004/42/EC)

VOC content	98,1 %
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Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	98,1 %
-------------	--------

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

 Wassergefährdungsklasse, WGK 1 slightly hazardous to water
 (water hazard class)

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances		≥ 25 wt%	0,5 kg/h	50 mg/m ³	3)

Notation

 3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 10 (combustible liquids)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.3	Other hazards: of no significance	Other hazards	yes
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

abia Treponema Ab Negative control (inactivated)

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
4.1	General notes: Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.	General notes: Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Wash with water. In case of skin contact with molten plastic cool rapidly with water. Do not attempt removal of plastic without medical assistance.	yes
4.2	Most important symptoms and effects, both acute and delayed: Symptoms and effects are not known to date.	Most important symptoms and effects, both acute and delayed: Burning marks in skin contact with molten plastic.	yes
4.3	Indication of any immediate medical attention and special treatment needed: none	Indication of any immediate medical attention and special treatment needed: Severe burning of skin. Treat symptomatically.	yes
7.2		Managing of associated risks	yes
7.2		- Explosive atmospheres: To be stored dry.	yes
9.1	Colour: different	Colour: various	yes
9.2	Solvent content: 98,1 %	Solvent content: 98,6 %	yes
10.4	Conditions to avoid: There are no specific conditions known which have to be avoided.	Conditions to avoid: Do not allow product to remain in barrel at elevated temperatures for extended period of time.	yes
10.6	Hazardous decomposition products: Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.	Hazardous decomposition products: Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5. Oxides of hydrocarbon fragments.	yes
11.1	Acute toxicity: Shall not be classified as acutely toxic.	Acute toxicity: Shall not be classified as acutely toxic. Carbon black: fish: LC50(96h)>100mg/l, (Brachydanio rerio), OECD203, water flea: EC50(24h)>5600 mg/l, (Daphnia magna), OECD202, algae: EC50 (72h)>10000 mg/l (Scenedesmus subspicatus), LD50 (oral, rat): > 8000 mg/kg. In the compound, the carbon black is bound in the base polymer. GHS of the United Nations, annex 4: May be harmful in contact with skin.	yes
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)	yes
11.1	Carcinogenicity: Shall not be classified as carcinogenic.	Carcinogenicity: Shall not be classified as carcinogenic. Carbon black is listed as a possible carcinogen to humans - group 2B - by the International Agency for Research on Cancer (IARC), but is not listed as a carcinogen by U.S. National Toxicity Program (NTP) and U.S. Occupational Safety and Health Administration (OSHA).	yes

abia Treponema Ab Negative control (inactivated)

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
12.1	Toxicity: Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. WGK 1, slightly hazardous to water (Germany)	Toxicity: Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 1, slightly hazardous to water (Germany)	yes
14.3	Transport hazard class(es)	Transport hazard class(es): none	yes
14.3	Class: -		yes
14.5	Environmental hazards	Environmental hazards: non-environmentally hazardous acc. to the dangerous goods regulations	yes
15.1	Water hazard class - WHC (Wassergefährdungskategorie): 1 slightly hazardous to water - classification acc. to annex 3/annex 4 (VwVWS)	Wassergefährdungskategorie, WGK (water hazard class): 1 slightly hazardous to water	yes
16		Abbreviations and acronyms: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Workplace exposure limit
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association

abia Treponema Ab Negative control (inactivated)

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Abbr.	Descriptions of used abbreviations
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

abia Treponema Ab Negative control (inactivated)

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 18.02.2019

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

abia Washing solution (concentrated 25-fold)

Version number: GHS 2.0
 Replaces version of: 28.10.2016 (GHS 1)

Revision: 21.04.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name abia Washing solution (concentrated 25-fold)
 Reference number(s) WS.001.50.3, WS.001.12.3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet

AB Diagnostic Systems GmbH
 Sportfliegerstraße 4
 DE-12487 Berlin
 Germany

Telephone: +49 (0) 30 208 987 160
 Telefax: +49 (0) 30 208 987 199
 e-mail: info@ab-ds.de
 Website: www.ab-ds.de

1.4 Emergency telephone number

Emergency information service +49 (0) 30 208 987 10
This number is only available during office hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)
 This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)
 not required

2.3 Other hazards

of no significance


SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Sodium hydroxide	CAS No 1310-73-2 EC No 215-185-5 REACH Reg. No 01-2119457892-27- xxxx	< 1	Skin Corr. 1 / H314	

abia Washing solution (concentrated 25-fold)

Version number: GHS 2.0
Replaces version of: 28.10.2016 (GHS 1)

Revision: 21.04.2017

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO_x)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

abia Washing solution (concentrated 25-fold)

Version number: GHS 2.0
Replaces version of: 28.10.2016 (GHS 1)

Revision: 21.04.2017

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Remove persons to safety.

For emergency responders
Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill
Covering of drains

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Sawdust, Kieselgur (diatomite), Sand, Universal binder

Appropriate containment techniques
Use of adsorbent materials.

Other information relating to spills and releases
Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Control of effects

Protect against external exposure, such as
Frost

7.3 Specific end use(s)

See section 16 for a general overview.

abia Washing solution (concentrated 25-fold)

Version number: GHS 2.0
Replaces version of: 28.10.2016 (GHS 1)

Revision: 21.04.2017

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

These information are not available.

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Sodium hydroxide	1310-73-2	DNEL	1 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	different
Odour	characteristic

Other safety parameters

abia Washing solution (concentrated 25-fold)

Version number: GHS 2.0
 Replaces version of: 28.10.2016 (GHS 1)

Revision: 21.04.2017

pH (value)	7,3 - 7,6 (1,195 g/cm ³ , 20 °C)
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapour pressure	not determined
Density	not determined
Vapour density	this information is not available
Relative density	information on this property is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

9.2 Other information

Solvent content	87,7 %
Solid content	31,74 %

abia Washing solution (concentrated 25-fold)

Version number: GHS 2.0
Replaces version of: 28.10.2016 (GHS 1)

Revision: 21.04.2017

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

abia Washing solution (concentrated 25-fold)

Version number: GHS 2.0
Replaces version of: 28.10.2016 (GHS 1)

Revision: 21.04.2017

Specific target organ toxicity - repeated exposure
Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard
Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. WGK 3, strongly hazardous to water (Germany)

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1	UN number	not subject to transport regulations
14.2	UN proper shipping name	not relevant
14.3	Transport hazard class(es)	
	Class	-
14.4	Packing group	not relevant
14.5	Environmental hazards	

abia Washing solution (concentrated 25-fold)

Version number: GHS 2.0
 Replaces version of: 28.10.2016 (GHS 1)

Revision: 21.04.2017

14.6 Special precautions for user
 There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
 The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)
 Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)
 Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)
 Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Relevant provisions of the European Union (EU)

Deco-Paint Directive (2004/42/EC)

VOC content	2,75 %
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Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	2,75 %
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National regulations (Germany)

Administrative Regulation on Substances Hazardous to Water (VwVwS)

Water hazard class - WHC 3 strongly hazardous to water - classification acc. to annex 3/annex 4 (VwVwS)
 (Wassergefährdungsklasse)

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
	not assigned		100 wt%			

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 12 (non-combustible liquids)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

abia Washing solution (concentrated 25-fold)

 Version number: GHS 2.0
 Replaces version of: 28.10.2016 (GHS 1)

Revision: 21.04.2017

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.1	Product name: Washing solution (concentrated 25-fold)	Product name: abia Washing solution (concentrated 25-fold)	yes
3.2		Description of the mixture: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)

abia Washing solution (concentrated 25-fold)

Version number: GHS 2.0
Replaces version of: 28.10.2016 (GHS 1)

Revision: 21.04.2017

Abbr.	Descriptions of used abbreviations
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H314	Causes severe skin burns and eye damage.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

abia Treponema Ab TMB (concentrated 11-fold)

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 29.05.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name abia Treponema Ab TMB (concentrated 11-fold)
Reference number(s) SA.009.25.3, SA.009.35.3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet

AB Diagnostic Systems GmbH
Sportfliegerstraße 4
DE-12487 Berlin
Germany

Telephone: +49 (0) 30 208 987 160
Telefax: +49 (0) 30 208 987 199
e-mail: info@ab-ds.de
Website: www.ab-ds.de

1.4 Emergency telephone number

Emergency information service +49 (0) 30 208 987 10
This number is only available during office hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)
This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)
not required

2.3 Other hazards

This material is combustible, but will not ignite readily.
Results of PBT and vPvB assessment
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)




3.2 Mixtures

Description of the mixture

abia Treponema Ab TMB (concentrated 11-fold)

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 29.05.2020

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
2-chloroacetamide	CAS No 79-07-2 EC No 201-174-2 Index No 616-036-00-0 REACH Reg. No 01-2119958971-23-xxxx	< 1	Acute Tox. 3 / H301 Skin Sens. 1 / H317 Repr. 2 / H361f	
EDTA disodium salt dihydrat	CAS No 6381-92-6 EC No 205-358-3	< 1	Acute Tox. 4 / H332 STOT RE 2 / H373	
1,4-dihydroxybenzene	CAS No 123-31-9 EC No 204-617-8 Index No 604-005-00-4 REACH Reg. No 01-2119524016-51-xxxx	< 1	Acute Tox. 4 / H302 Eye Dam. 1 / H318 Skin Sens. 1 / H317 Muta. 2 / H341 Carc. 2 / H351 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

Name of substance	Identifier	Specific Conc. Limits	M-Factors
2-chloroacetamide	CAS No 79-07-2 EC No 201-174-2	Skin Sens. 1; H317: C ≥ 0,1 %	
1,4-dihydroxybenzene	CAS No 123-31-9 EC No 204-617-8		M-factor (acute) = 10.0

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Wash with water. In case of skin contact with molten plastic cool rapidly with water. Do not attempt removal of plastic without medical assistance.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

abia Treponema Ab TMB (concentrated 11-fold)

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 29.05.2020

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Burning marks in skin contact with molten plastic.

4.3 Indication of any immediate medical attention and special treatment needed

Severe burning of skin. Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

abia Treponema Ab TMB (concentrated 11-fold)

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 29.05.2020

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

To be stored dry.

Control of effects

Protect against external exposure, such as

Frost

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
DE	dimethylsulfoxide	67-68-5	MAK	50	160	100	320				DFG
DE	dimethylsulfoxide (DMSO)	67-68-5	AGW	50	160	100	320			H, Z	TRGS 900

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur
 H absorbed through the skin
 STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
 TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)
 Z a risk of developmental toxicity can not be ruled out even if AGW and BGW are complied with

abia Treponema Ab TMB (concentrated 11-fold)

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 29.05.2020

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2-chloroacetamide	79-07-2	DNEL	0,705 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-chloroacetamide	79-07-2	DNEL	11,3 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
2-chloroacetamide	79-07-2	DNEL	0,171 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
1,4-dihydroxybenzene	123-31-9	DNEL	2,1 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
1,4-dihydroxybenzene	123-31-9	DNEL	3,33 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
2-chloroacetamide	79-07-2	PNEC	4,81 µg/l	aquatic organisms	freshwater	short-term (single instance)
2-chloroacetamide	79-07-2	PNEC	0,481 µg/l	aquatic organisms	marine water	short-term (single instance)
2-chloroacetamide	79-07-2	PNEC	48,1 µg/l	aquatic organisms	water	intermittent release
2-chloroacetamide	79-07-2	PNEC	0,022 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-chloroacetamide	79-07-2	PNEC	0,002 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-chloroacetamide	79-07-2	PNEC	0,03 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-chloroacetamide	79-07-2	PNEC	11,74 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1,4-dihydroxybenzene	123-31-9	PNEC	0,57 µg/l	aquatic organisms	freshwater	short-term (single instance)
1,4-dihydroxybenzene	123-31-9	PNEC	0,057 µg/l	aquatic organisms	marine water	short-term (single instance)
1,4-dihydroxybenzene	123-31-9	PNEC	1,34 µg/l	aquatic organisms	water	intermittent release
1,4-dihydroxybenzene	123-31-9	PNEC	0,71 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1,4-dihydroxybenzene	123-31-9	PNEC	4,9 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1,4-dihydroxybenzene	123-31-9	PNEC	0,49 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
1,4-dihydroxybenzene	123-31-9	PNEC	0,64 µg/kg	terrestrial organisms	soil	short-term (single instance)

abia Treponema Ab TMB (concentrated 11-fold)

Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 29.05.2020

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	various
Odour	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	189 °C at 1.013 hPa
Flash point	87 °C at 1.013 hPa
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)

Explosive limits

abia Treponema Ab TMB (concentrated 11-fold)

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 29.05.2020

- Lower explosion limit (LEL)	2,6 vol%
- Upper explosion limit (UEL)	28,5 vol%
Vapour pressure	not determined
Density	not determined
Vapour density	this information is not available
Relative density	information on this property is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	300 °C
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

9.2 Other information

Solvent content	99,77 %
Solid content	0,2471 %
Temperature class (EU, acc. to ATEX)	T3 (maximum permissible surface temperature on the equipment: 200°C)

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not allow product to remain in barrel at elevated temperatures for extended period of time.

10.5 Incompatible materials

Oxidisers

abia Treponema Ab TMB (concentrated 11-fold)

Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 29.05.2020

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5. Oxides of hydrocarbon fragments.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Shall not be classified as acutely toxic. Carbon black: fish: LC50(96h)>100mg/l, (Brachydanio rerio), OECD203, water flea: EC50(24h)>5600 mg/l, (Daphnia magna), OECD202, algae: EC50 (72h)>10000 mg/l (Scenedesmus subspicatus), LD50 (oral, rat): > 8000 mg/kg. In the compound, the carbon black is bound in the base polymer.

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
2-chloroacetamide	79-07-2	oral	138 mg/kg
EDTA disodium salt dihydrat	6381-92-6	inhalation: vapour	11 mg/l/4h
EDTA disodium salt dihydrat	6381-92-6	inhalation: dust/mist	1,5 mg/l/4h
1,4-dihydroxybenzene	123-31-9	oral	375 mg/kg

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic. Carbon black is listed as a possible carcinogen to humans - group 2B - by the International Agency for Research on Cancer (IARC), but is not listed as a carcinogen by U.S. National Toxicity Program (NTP) and U.S. Occupational Safety and Health Administration (OSHA).

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

abia Treponema Ab TMB (concentrated 11-fold)

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 29.05.2020

SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.
Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 1, slightly hazardous to water (Germany)

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- | | |
|---|---|
| 14.1 UN number | not subject to transport regulations |
| 14.2 UN proper shipping name | not relevant |
| 14.3 Transport hazard class(es) | not assigned |
| 14.4 Packing group | not assigned |
| 14.5 Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 Special precautions for user | There is no additional information. |
| 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code | The cargo is not intended to be carried in bulk. |

abia Treponema Ab TMB (concentrated 11-fold)

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 29.05.2020

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR. Not subject to RID.

European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN)

Identifier number	9003
Proper shipping name	SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C AND NOT MORE THAN 100 °C
Class	9
Number of cones/blue lights	0

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant provisions of the European Union (EU)

Deco-Paint Directive (2004/42/EC)

VOC content	99,75 %
-------------	---------

Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	99,75 %
-------------	---------

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

 Wassergefährdungsklasse, WGK 1 slightly hazardous to water
 (water hazard class)

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances		≥ 25 wt%	0,5 kg/h	50 mg/m ³	3)

Notation

 3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 10 (combustible liquids)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

abia Treponema Ab TMB (concentrated 11-fold)

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 29.05.2020

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.1	Classification according to Regulation (EC) No 1272/2008 (CLP)	Classification according to Regulation (EC) No 1272/2008 (CLP): This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.	yes
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)	yes
2.2	Labelling according to Regulation (EC) No 1272/2008 (CLP)	Labelling according to Regulation (EC) No 1272/2008 (CLP): not required	yes
2.2	- Signal word: danger		yes
2.2	- Pictograms		yes
2.2		- Pictograms: change in the listing (table)	yes
2.2		- Hazard statements: change in the listing (table)	yes
2.2		- Precautionary statements: change in the listing (table)	yes
2.2	- Hazardous ingredients for labelling: N-methyl-2-pyrrolidone, 2-chloroacetamide		yes
2.3	Other hazards: of no significance	Other hazards: This material is combustible, but will not ignite readily.	yes
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
4.1	General notes: Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.	General notes: Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Wash with water. In case of skin contact with molten plastic cool rapidly with water. Do not attempt removal of plastic without medical assistance.	yes
4.1	Following inhalation: If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.	Following inhalation: If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.	yes

abia Treponema Ab TMB (concentrated 11-fold)

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 29.05.2020

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
4.2	Most important symptoms and effects, both acute and delayed: Symptoms and effects are not known to date.	Most important symptoms and effects, both acute and delayed: Burning marks in skin contact with molten plastic.	yes
4.3	Indication of any immediate medical attention and special treatment needed: none	Indication of any immediate medical attention and special treatment needed: Severe burning of skin. Treat symptomatically.	yes
5.2	Hazardous combustion products: Nitrogen oxides (NO _x), Carbon monoxide (CO), Carbon dioxide (CO ₂)	Hazardous combustion products: Carbon monoxide (CO), Carbon dioxide (CO ₂)	yes
7.2		Managing of associated risks	yes
7.2		- Explosive atmospheres: To be stored dry.	yes
7.2		Control of effects	yes
7.2		Protect against external exposure, such as: Frost	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1		Relevant PNECs of components of the mixture: change in the listing (table)	yes
9.1	Colour: different	Colour: various	yes
9.1	Flash point: not determined	Flash point: 87 °C at 1.013 hPa	yes
9.1	Vapour pressure: 0,32 hPa at 20 °C	Vapour pressure: not determined	yes
9.1	Auto-ignition temperature: 245 °C	Auto-ignition temperature: 300 °C	yes
9.2	Solvent content: 100 %	Solvent content: 99,77 %	yes
9.2	Solid content: 0,2696 %	Solid content: 0,2471 %	yes
10.2	Chemical stability: See below "Conditions to avoid".	Chemical stability: The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.	yes
10.4	Conditions to avoid: There are no specific conditions known which have to be avoided.	Conditions to avoid: Do not allow product to remain in barrel at elevated temperatures for extended period of time.	yes
10.6	Hazardous decomposition products: Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.	Hazardous decomposition products: Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5. Oxides of hydrocarbon fragments.	yes

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

abia Treponema Ab TMB (concentrated 11-fold)

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 29.05.2020

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
11.1	Classification according to GHS (1272/2008/EC, CLP)	Classification according to GHS (1272/2008/EC, CLP): This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.	yes
11.1	Acute toxicity: Shall not be classified as acutely toxic.	Acute toxicity: Shall not be classified as acutely toxic. Carbon black: fish: LC50(96h)>100mg/l, (Brachydanio rerio), OECD203, water flea: EC50(24h)>5600 mg/l, (Daphnia magna), OECD202, algae: EC50 (72h)>10000 mg/l (Scenedesmus subspicatus), LD50 (oral, rat): > 8000 mg/kg. In the compound, the carbon black is bound in the base polymer.	yes
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)	yes
11.1	Skin corrosion/irritation: Causes skin irritation.	Skin corrosion/irritation: Shall not be classified as corrosive/irritant to skin.	yes
11.1	Serious eye damage/eye irritation: Causes serious eye irritation.	Serious eye damage/eye irritation: Shall not be classified as seriously damaging to the eye or eye irritant.	yes
11.1	Respiratory or skin sensitisation: May cause an allergic skin reaction.	Respiratory or skin sensitisation: Shall not be classified as a respiratory or skin sensitiser.	yes
11.1	Carcinogenicity: Shall not be classified as carcinogenic.	Carcinogenicity: Shall not be classified as carcinogenic. Carbon black is listed as a possible carcinogen to humans - group 2B - by the International Agency for Research on Cancer (IARC), but is not listed as a carcinogen by U.S. National Toxicity Program (NTP) and U.S. Occupational Safety and Health Administration (OSHA).	yes
11.1	Reproductive toxicity: May damage the unborn child. Suspected of damaging fertility.	Reproductive toxicity: Shall not be classified as a reproductive toxicant.	yes
11.1	Specific target organ toxicity - single exposure: May cause respiratory irritation.	Specific target organ toxicity - single exposure: Shall not be classified as a specific target organ toxicant (single exposure).	yes
12.1	Toxicity: Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. Administrative Regulation on Substances Hazardous to Water (VwVwS). WGK 1, slightly hazardous to water (Germany)	Toxicity: Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 1, slightly hazardous to water (Germany)	yes
14.3	Transport hazard class(es)	Transport hazard class(es): not assigned	yes
14.3	Class: -		yes
14.4	Packing group: not relevant	Packing group: not assigned	yes
14.5	Environmental hazards	Environmental hazards: non-environmentally hazardous acc. to the dangerous goods regulations	yes

abia Treponema Ab TMB (concentrated 11-fold)

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 29.05.2020

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.7	Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN): Not subject to ADR, RID and ADN.	Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN): Not subject to ADR. Not subject to RID.	yes
14.7		European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN)	yes
14.7		Identifier number: 9003	yes
14.7		Proper shipping name: SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C AND NOT MORE THAN 100 °C	yes
14.7		Class: 9	yes
14.7		Number of cones/blue lights: 0	yes
15.1	VOC content: 100 %	VOC content: 99,75 %	yes
15.1	VOC content: 100 %	VOC content: 99,75 %	yes
15.1	Water hazard class - WHC (Wassergefährdungsklasse): 1 slightly hazardous to water - classification acc. to annex 3/annex 4 (VwVwS)	Wassergefährdungsklasse, WGK (water hazard class): 1 slightly hazardous to water	yes
15.1		Technical instructions on air quality control (Germany): change in the listing (table)	yes
15.1	Storage class (LGK): 6.1 C (combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects)	Storage class (LGK): 10 (combustible liquids)	yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16		List of relevant phrases (code and full text as stated in chapter 2 and 3): change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Workplace exposure limit
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard

abia Treponema Ab TMB (concentrated 11-fold)

 Version number: GHS 3.0
 Replaces version of: 26.04.2017 (GHS 2)

Revision: 29.05.2020

Abbr.	Descriptions of used abbreviations
ATE	Acute Toxicity Estimate
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DFG	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
Muta.	Germ cell mutagenicity
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Sens.	Skin sensitisation

abia Treponema Ab TMB (concentrated 11-fold)

Version number: GHS 3.0
Replaces version of: 26.04.2017 (GHS 2)

Revision: 29.05.2020

Abbr.	Descriptions of used abbreviations
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

abia Substrate buffer

Version number: GHS 2.2
Replaces version of: 06.03.2017 (GHS 1)

Revision: 21.04.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name abia Substrate buffer
Reference number(s) SB.001.25.3, SB.001.70.3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet

AB Diagnostic Systems GmbH
Sportfliegerstraße 4
DE-12487 Berlin
Germany

Telephone: +49 (0) 30 208 987 160
Telefax: +49 (0) 30 208 987 199
e-mail: info@ab-ds.de
Website: www.ab-ds.de

1.4 Emergency telephone number

Emergency information service +49 (0) 30 208 987 10
This number is only available during office hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

For full text of abbreviations: see SECTION 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word not required

- Pictograms not required

- Supplemental hazard information

EUH208 Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1). May produce an allergic reaction.

2.3 Other hazards

There is no additional information.

abia Substrate buffer

 Version number: GHS 2.2
 Replaces version of: 06.03.2017 (GHS 1)

Revision: 21.04.2017










SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Citric acid	CAS No 5949-29-1	< 1	Eye Irrit. 2 / H319	
potassium hydroxide	CAS No 1310-58-3 EC No 215-181-3 Index No 019-002-00-8 REACH Reg. No 01-2119487136-33-xxxx	< 1	Acute Tox. 4 / H302 Skin Corr. 1A / H314 Eye Dam. 1 / H318	 
hydrogen peroxide solution ... %	CAS No 7722-84-1 EC No 231-765-0 Index No 008-003-00-9 REACH Reg. No 01-2119485845-22-xxxx	< 1	Ox. Liq. 1 / H271 Acute Tox. 4 / H302 Acute Tox. 4 / H332 Skin Corr. 1A / H314 Eye Dam. 1 / H318 STOT SE 3 / H335	  
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS No 55965-84-9 Index No 613-167-00-5	< 1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	  
Modified alkyl carboxylate (ProClin 300)		< 1	Aquatic Chronic 4 / H413	

Name of substance	Identifier	Specific Conc. Limits	M-Factors
potassium hydroxide	CAS No 1310-58-3 EC No 215-181-3	Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0,5 % ≤ C < 2 % Eye Dam. 1; H318: C ≥ 2 % Eye Irrit. 2; H319: 0,5 % ≤ C < 2 %	
hydrogen peroxide solution ... %	CAS No 7722-84-1 EC No 231-765-0	Ox. Liq. 1; H271: C ≥ 70 % Ox. Liq. 2; H272: 50 % ≤ C < 70 % Skin Corr. 1A; H314: C ≥ 70 % Skin Corr. 1B; H314: 50 % ≤ C < 70 % Skin Irrit. 2; H315: 35 % ≤ C < 50 % Eye Dam. 1; H318: C ≥ 8 % Eye Irrit. 2; H319: 5 % ≤ C < 8 % STOT SE 3; H335: C ≥ 35 %	

abia Substrate buffer

Version number: GHS 2.2
 Replaces version of: 06.03.2017 (GHS 1)

Revision: 21.04.2017

Name of substance	Identifier	Specific Conc. Limits	M-Factors
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)	CAS No 55965-84-9	Skin Corr. 1B; H314: C ≥ 0,6 % Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 % Eye Dam. 1; H318: C ≥ 0,6 % Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 % Skin Sens. 1; H317: C ≥ 0,0015 %	

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

abia Substrate buffer

Version number: GHS 2.2
Replaces version of: 06.03.2017 (GHS 1)

Revision: 21.04.2017

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Remove persons to safety.

For emergency responders
Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill
Covering of drains

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Sawdust, Kieselgur (diatomite), Sand, Universal binder

Appropriate containment techniques
Use of adsorbent materials.

Other information relating to spills and releases
Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Control of effects

Protect against external exposure, such as
Frost

7.3 Specific end use(s)

See section 16 for a general overview.

abia Substrate buffer

 Version number: GHS 2.2
 Replaces version of: 06.03.2017 (GHS 1)

Revision: 21.04.2017

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)								
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Source
DE	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	MAK		0,2		0,4	DFG
DE	hydrogen peroxide	7722-84-1	MAK	0,5	0,71	0,5	0,71	DFG

Notation

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
potassium hydroxide	1310-58-3	DNEL	1 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
hydrogen peroxide solution ... %	7722-84-1	DNEL	1,4 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
hydrogen peroxide solution ... %	7722-84-1	DNEL	3 mg/m ³	human, inhalatory	worker (industry)	acute - local effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
hydrogen peroxide solution ... %	7722-84-1	PNEC	0,013 mg/l	aquatic organisms	freshwater	short-term (single instance)
hydrogen peroxide solution ... %	7722-84-1	PNEC	0,013 mg/l	aquatic organisms	marine water	short-term (single instance)
hydrogen peroxide solution ... %	7722-84-1	PNEC	4,66 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
hydrogen peroxide solution ... %	7722-84-1	PNEC	0,047 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
hydrogen peroxide solution ... %	7722-84-1	PNEC	0,047 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
hydrogen peroxide solution ... %	7722-84-1	PNEC	0,002 mg/kg	terrestrial organisms	soil	short-term (single instance)
hydrogen peroxide solution ... %	7722-84-1	PNEC	0,014 mg/l	aquatic organisms	water	intermittent release

abia Substrate buffer

Version number: GHS 2.2
 Replaces version of: 06.03.2017 (GHS 1)

Revision: 21.04.2017

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	different
Odour	characteristic

Other safety parameters

pH (value)	4,1 - 4,3 (20 °C)
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapour pressure	not determined
Density	not determined
Vapour density	this information is not available

abia Substrate buffer

Version number: GHS 2.2
Replaces version of: 06.03.2017 (GHS 1)

Revision: 21.04.2017

Relative density	information on this property is not available
Solubility(ies)	not determined
Partition coefficient	
- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

9.2 Other information

Solvent content	99,32 %
Solid content	0,892 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

abia Substrate buffer

Version number: GHS 2.2
 Replaces version of: 06.03.2017 (GHS 1)

Revision: 21.04.2017

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
potassium hydroxide	1310-58-3	oral	333 mg/kg
hydrogen peroxide solution ... %	7722-84-1	oral	1.193 mg/kg
hydrogen peroxide solution ... %	7722-84-1	dermal	2.000 mg/kg
hydrogen peroxide solution ... %	7722-84-1	inhalation: vapour	11 mg/l/4h
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)	55965-84-9	oral	100 mg/kg
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)	55965-84-9	dermal	300 mg/kg
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)	55965-84-9	inhalation: vapour	3 mg/l/4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

abia Substrate buffer

Version number: GHS 2.2
Replaces version of: 06.03.2017 (GHS 1)

Revision: 21.04.2017

Aspiration hazard
Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. WGK Nwg, non-hazardous to water (Germany)

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- | | | |
|------|-------------------------------------|--------------------------------------|
| 14.1 | UN number | not subject to transport regulations |
| 14.2 | UN proper shipping name | not relevant |
| 14.3 | Transport hazard class(es) | |
| | Class | - |
| 14.4 | Packing group | not relevant |
| 14.5 | Environmental hazards | |
| 14.6 | Special precautions for user | |
| | | There is no additional information. |

abia Substrate buffer

Version number: GHS 2.2
Replaces version of: 06.03.2017 (GHS 1)

Revision: 21.04.2017

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant provisions of the European Union (EU)

Deco-Paint Directive (2004/42/EC)

VOC content	99,29 %
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Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	99,29 %
-------------	---------

National regulations (Germany)

Administrative Regulation on Substances Hazardous to Water (VwVwS)

Water hazard class - WHC nwg non-hazardous to water - classification acc. to annex 3/annex 4 (VwVwS)
(Wassergefährdungsklasse)

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances		≥ 25 wt%	0,5 kg/h	50 mg/m ³	3)

Notation

3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 10 (combustible liquids)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

abia Substrate buffer

Version number: GHS 2.2
 Replaces version of: 06.03.2017 (GHS 1)

Revision: 21.04.2017

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DFG	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
Ox. Liq.	Oxidising liquid
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals

abia Substrate buffer

Version number: GHS 2.2
 Replaces version of: 06.03.2017 (GHS 1)

Revision: 21.04.2017

Abbr.	Descriptions of used abbreviations
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TRGS	Technische Regeln für GefahrStoffe (technical rules for hazardous substances, Germany)
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H271	May cause fire or explosion; strong oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

abia Substrate buffer

Version number: GHS 2.2
Replaces version of: 06.03.2017 (GHS 1)

Revision: 21.04.2017

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

abia Stopping reagent 0.2M

 Version number: GHS 3.0
 Replaces version of: 08.02.2017 (GHS 2)

Revision: 24.04.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name abia Stopping reagent 0.2M
 Reference number(s) SR.020.25.3, SR.020.90.3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet

AB Diagnostic Systems GmbH
 Sportfliegerstraße 4
 DE-12487 Berlin
 Germany

Telephone: +49 (0) 30 208 987 160
 Telefax: +49 (0) 30 208 987 199
 e-mail: info@ab-ds.de
 Website: www.ab-ds.de

1.4 Emergency telephone number

Emergency information service +49 (0) 30 208 987 10
 This number is only available during office hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Cat-egory	Hazard class and category	Hazard state-ment
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319

For full text of abbreviations: see SECTION 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word warning

- Pictograms

GHS07



- Hazard statements

H315 Causes skin irritation.
 H319 Causes serious eye irritation.

abia Stopping reagent 0.2M

 Version number: GHS 3.0
 Replaces version of: 08.02.2017 (GHS 2)

Revision: 24.04.2017

- Precautionary statements

P264	Wash ... thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water/...
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see ... on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing.

2.3 Other hazards

of no significance


SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
95 % Sulfuric acid	CAS No 7664-93-9 EC No 231-639-5 Index No 016-020-00-8	1 - < 5	Skin Corr. 1A / H314 Eye Dam. 1 / H318	

Name of substance	Identifier	Specific Conc. Limits	M-Factors
95 % Sulfuric acid	CAS No 7664-93-9 EC No 231-639-5	Skin Corr. 1A; H314: C ≥ 15 % Skin Irrit. 2; H315: 5 % ≤ C < 15 % Eye Dam. 1; H318: C ≥ 15 % Eye Irrit. 2; H319: 5 % ≤ C < 15 %	

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

abia Stopping reagent 0.2M

Version number: GHS 3.0
Replaces version of: 08.02.2017 (GHS 2)

Revision: 24.04.2017

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Sawdust, Kieselgur (diatomite), Sand, Universal binder

abia Stopping reagent 0.2M

Version number: GHS 3.0
Replaces version of: 08.02.2017 (GHS 2)

Revision: 24.04.2017

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation. Use only in well-ventilated areas. Never add water to this product.
- Handling of incompatible substances or mixtures
Do not mix with alkali.
- Keep away from
Caustic solutions

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Control of effects

Protect against external exposure, such as

Frost

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

These information are not available.

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

abia Stopping reagent 0.2M

 Version number: GHS 3.0
 Replaces version of: 08.02.2017 (GHS 2)

Revision: 24.04.2017

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	different
Odour	characteristic

Other safety parameters

pH (value)	0,6 - 0,7 (1.009 mg/cm ³ , 21 °C) (acid)
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapour pressure	not determined
Density	not determined
Vapour density	this information is not available
Relative density	information on this property is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available
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abia Stopping reagent 0.2MVersion number: GHS 3.0
Replaces version of: 08.02.2017 (GHS 2)

Revision: 24.04.2017

Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

9.2 Other information

Solvent content	100 %
Solid content	0 %

SECTION 10: Stability and reactivity**10.1 Reactivity**

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers

Release of flammable materials with:

Light metals (due to the release of hydrogen in an acid/alkaline medium)

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

abia Stopping reagent 0.2M

Version number: GHS 3.0
Replaces version of: 08.02.2017 (GHS 2)

Revision: 24.04.2017

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

abia Stopping reagent 0.2M

Version number: GHS 3.0
Replaces version of: 08.02.2017 (GHS 2)

Revision: 24.04.2017

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- | | |
|--|--------------------------------------|
| 14.1 UN number | not subject to transport regulations |
| 14.2 UN proper shipping name | not relevant |
| 14.3 Transport hazard class(es) | |
| Class | - |
| 14.4 Packing group | not relevant |
| 14.5 Environmental hazards | |
| 14.6 Special precautions for user | |
| There is no additional information. | |
| 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code | |
| The cargo is not intended to be carried in bulk. | |

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

abia Stopping reagent 0.2M

 Version number: GHS 3.0
 Replaces version of: 08.02.2017 (GHS 2)

Revision: 24.04.2017

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant provisions of the European Union (EU)

Deco-Paint Directive (2004/42/EC)

VOC content	98,8 %
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Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	98,8 %
-------------	--------

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.1	Product name: Stopping reagent 0.2M	Product name: abia Stopping reagent 0.2M	yes
3.2		Description of the mixture: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

abia Stopping reagent 0.2M

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Abbr.	Descriptions of used abbreviations
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.