

DENIMCOL DIS-MIP

Version 4.3

Revision Date 23.06.2016

Print Date 07.12.2017

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

1.1 Product identifier

Trade name : DENIMCOL DIS-MIP

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

Use of the Sub-
stance/Mixture : Textile auxiliary

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier

CHT Germany GmbH
Bismarckstraße 102
72072 Tübingen
Germany
Tel.: +49 7071 154 0
info@cht.com

CHT Switzerland AG
Kriessernstrasse 20
9462 Montlingen
Switzerland
Tel.: +41 71 763 88 11
info.switzerland@cht.com

Importer : -
-
-
-
-
-

Responsible Department : CHT Germany GmbH
CHT Switzerland AG
Product Safety
sds.germany@cht.com
sds.switzerland@cht.com

1.4 Emergency telephone number

Emergency telephone
number : +49 7071 154 0 (Germany, 24
hours)
+41 71 763 88 11 (Switzerland, 24 hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Serious eye damage, Category 1 H318: Causes serious eye damage.

DENIMCOL DIS-MIP

Version 4.3

Revision Date 23.06.2016

Print Date 07.12.2017

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H318

Causes serious eye damage.

Precautionary statements

: **Prevention:**

P280

Wear eye protection/ face protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label:

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

: Compound on base:
Special polymers
Surfactants
Enzyme

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
2-[2-(2-butoxyethoxy)ethoxy]ethanol	143-22-6 205-592-6 01-2119531322-53	Eye Dam.1; H318	>= 10 - < 20
3,6,9,12-	1559-34-8	Eye Irrit.2; H319	>= 3 - < 10

DENIMCOL DIS-MIP

Version 4.3

Revision Date 23.06.2016

Print Date 07.12.2017

tetraoxahexadecan-1-ol	216-322-1		
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	68411-30-3 270-115-0 01-2119489428-22	Acute Tox.4; H302 Skin Irrit.2; H315 Eye Dam.1; H318 Aquatic Chronic3; H412	>= 1 - < 2,5
2-(2-butoxyethoxy)ethanol	112-34-5 203-961-6 01-2119475104-44	Eye Irrit.2; H319	>= 1 - < 3

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Take off all contaminated clothing immediately.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Call a physician immediately.
- If swallowed : Rinse mouth with water.
Do NOT induce vomiting.
Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Refer to section 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO₂)
Water spray

DENIMCOL DIS-MIP

Version 4.3

Revision Date 23.06.2016

Print Date 07.12.2017

Dry powder
Foam

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.
Can be released in case of fire:
Carbon oxides
Phosphorus oxides
Sulphur oxides
Nitrogen oxides (NO_x)
acrylic monomers

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : In case of fire do not inhale smoke, conflagration gases and steam.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
Pay attention to local or official regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Clean contaminated surface thoroughly.
Dispose of in accordance with local regulations.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

DENIMCOL DIS-MIP

Version 4.3

Revision Date 23.06.2016

Print Date 07.12.2017

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
- Advice on protection against fire and explosion : Use water spray to cool unopened containers.
- Hygiene measures : Avoid contact with skin, eyes and clothing.
Do not breathe vapours, aerosols.
Take off all contaminated clothing immediately.
Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Do always store in containers which correspond to the original ones.
Keep container tightly closed.
- Further information on storage conditions : Protect from frost.
Protect from temperatures over + 60 °C.
- Advice on common storage : No special precautions required.
- Storage class (TRGS 510) : 12, Non Combustible Liquids

7.3 Specific end use(s)

- Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

- 2-[2-(2-butoxyethoxy)ethoxy]ethanol : End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 50 mg/kg
End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 195 mg/m³
End Use: Consumers
Exposure routes: Ingestion

DENIMCOL DIS-MIP

Version 4.3

Revision Date 23.06.2016

Print Date 07.12.2017

	Potential health effects: Long-term systemic effects
	Value: 2,5 mg/kg
	End Use: Consumers
	Exposure routes: Skin contact
	Potential health effects: Long-term systemic effects
	Value: 25 mg/kg
	End Use: Consumers
	Exposure routes: Inhalation
	Potential health effects: Long-term systemic effects
	Value: 117 mg/m3
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	: End Use: Workers
	Exposure routes: Inhalation
	Potential health effects: Long-term systemic effects
	Value: 6 mg/m3
	End Use: Workers
	Exposure routes: Inhalation
	Potential health effects: Long-term local effects
	Value: 6 mg/m3
	End Use: Workers
	Exposure routes: Skin contact
	Potential health effects: Long-term systemic effects
	Value: 85 mg/kg
	End Use: Consumers
	Exposure routes: Inhalation
	Potential health effects: Long-term systemic effects
	Value: 1,5 mg/m3
	End Use: Consumers
	Exposure routes: Inhalation
	Potential health effects: Long-term local effects
	Value: 1,5 mg/m3
	End Use: Consumers
	Exposure routes: Skin contact
	Potential health effects: Long-term systemic effects
	Value: 42,5 mg/kg
	End Use: Consumers
	Exposure routes: Ingestion
	Potential health effects: Long-term systemic effects
	Value: 0,425 mg/kg
2-(2-butoxyethoxy)ethanol	: End Use: Workers
	Exposure routes: Inhalation
	Potential health effects: Acute local effects
	Value: 101,2 mg/m3
	End Use: Workers
	Exposure routes: Inhalation
	Potential health effects: Long-term local effects
	Value: 67,5 mg/m3, 10 ppm
	End Use: Workers
	Exposure routes: Inhalation
	Potential health effects: Long-term systemic effects
	Value: 67,5 mg/m3, 10 ppm
	End Use: Workers

DENIMCOL DIS-MIP

Version 4.3

Revision Date 23.06.2016

Print Date 07.12.2017

Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 83 mg/kg bw/day
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Acute local effects
Value: 60,7 mg/m³
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 40,5 mg/m³
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 40,5 mg/m³
End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 50 mg/kg bw/day
End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 5 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

2-[2-(2-butoxyethoxy)ethoxy]ethanol	: Waste water treatment plant Value: 0,45 mg/kg Sediment Value: 5,77 mg/kg Marine water Value: 0,15 mg/l Fresh water Value: 1,5 mg/l
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	: Fresh water Value: 0,268 mg/l Marine water Value: 0,0268 mg/l Intermittent use/release Value: 0,0167 mg/l STP Value: 3,43 mg/l Fresh water sediment Value: 8,1 mg/kg Marine sediment Value: 6,8 mg/kg Soil Value: 35 mg/kg
2-(2-butoxyethoxy)ethanol	: Fresh water Value: 1,1 mg/l Marine water Value: 0,11 mg/l

DENIMCOL DIS-MIP

Version 4.3

Revision Date 23.06.2016

Print Date 07.12.2017

Intermittent use/release
Value: 11 mg/l
Fresh water sediment
Value: 4,4 mg/kg dry weight (d.w.)
Marine sediment
Value: 0,44 mg/kg dry weight (d.w.)
Waste water treatment plant
Value: 200 mg/l
Oral
Value: 56 mg/kg food
Soil
Value: 0,32 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

Solids with occupational exposure limits in liquid preparations do not cause an exposure in the work-place, because they are not present in a respirable form. Exposure can occur in the form of aerosols or after drying of the liquid the solids remain, possibly in a finely dispersed form.
Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Eye protection : Wear eye/face protection.

Hand protection

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : >= 0,35 mm
Protective index : Class 6
Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.
The obtained break through times according to EN 374 Part III are not measured under normal operating conditions. Therefore a maximum usage time of 50% of the break through time is recommended.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case the work place is not ventilated sufficiently and during spray processing, it is necessary to wear respiratory protective equipment.
Recommended Filter type:
Combination filter A/P

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

DENIMCOL DIS-MIP

Version 4.3

Revision Date 23.06.2016

Print Date 07.12.2017

Colour	: yellow, brown, clear
Odour	: not significant
pH	: 4 - 6, (20 °C)
Melting point/range	: No data available
Boiling point/boiling range	: 100 °C
Flash point	: Not applicable Other information: does not ignite
Evaporation rate	: Not applicable
Upper explosion limit	: Not applicable
Lower explosion limit	: Product is not explosive. However, formation of explosive air/steam mixtures is possible.
Vapour pressure	: No data available
Vapour density	: Not applicable
Density	: 1,035 - 1,040 g/cm ³ (20 °C)
Water solubility	: miscible
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: not auto-flammable
Viscosity, dynamic	: No data available
Oxidizing properties	: Not applicable

9.2 Other information

Conductivity	: Not determined
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SECTION 10: Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

DENIMCOL DIS-MIP

Version 4.3

Revision Date 23.06.2016

Print Date 07.12.2017

Conditions to avoid : Not applicable

10.5 Incompatible materials

Materials to avoid : Not applicable

10.6 Hazardous decomposition products

Hazardous decomposition products : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : > 2.000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Based on available data, the classification criteria are not met.

Acute dermal toxicity : Based on available data, the classification criteria are not met.

Components:

2-[2-(2-butoxyethoxy)ethoxy]ethanol:

Acute oral toxicity : LD50 Rat: 5.170 mg/kg

Acute dermal toxicity : LD50 Rabbit: 3.480 mg/kg

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Acute oral toxicity : LD50 Rat: > 300 - 2.000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Rat: > 2.000 mg/kg
Method: OECD Test Guideline 402

2-(2-butoxyethoxy)ethanol:

Acute oral toxicity : LD50 Rat: > 3.000 mg/kg

Acute dermal toxicity : LD50 Rabbit: > 2.000 mg/kg

Skin corrosion/irritation

DENIMCOL DIS-MIP

Version 4.3

Revision Date 23.06.2016

Print Date 07.12.2017

Product:

Prolonged skin contact may cause skin irritation.

Components:

2-[2-(2-butoxyethoxy)ethoxy]ethanol:

Species: Rabbit

Result: No skin irritation

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Species: Rabbit

Result: Skin irritation

Method: OECD Test Guideline 404

Serious eye damage/eye irritation

Product:

Causes serious eye damage.

Components:

2-[2-(2-butoxyethoxy)ethoxy]ethanol:

Species: Rabbit

Result: Risk of serious damage to eyes.

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Species: Rabbit

Result: Risk of serious damage to eyes.

Method: OECD Test Guideline 405

2-(2-butoxyethoxy)ethanol:

Species: Rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

Causes serious eye irritation.

Respiratory or skin sensitisation

Product:

No known sensitising effect.

Components:

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

DENIMCOL DIS-MIP

Version 4.3

Revision Date 23.06.2016

Print Date 07.12.2017

Germ cell mutagenicity

Product:

Germ cell mutagenicity- Assessment : Based on available data, the classification criteria are not met.

Components:

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Germ cell mutagenicity- Assessment : No indication for a mutagenic effect; in vitro and in vivo examinations.

Carcinogenicity

Product:

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

Components:

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Carcinogenicity - Assessment : No indication of a carcinogenic effect.

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

Components:

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Effects on fertility : Species: Rat
Application Route: Oral
General Toxicity - Parent: No observed adverse effect level:
350 mg/kg body weight
General Toxicity F1: No observed adverse effect level: 350
mg/kg body weight

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

STOT - single exposure

Product:

Based on available data, the classification criteria are not met.

STOT - repeated exposure

Product:

DENIMCOL DIS-MIP

Version 4.3

Revision Date 23.06.2016

Print Date 07.12.2017

Based on available data, the classification criteria are not met.

Aspiration toxicity

Product:

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Product:

- | | |
|---|---|
| Toxicity to fish | : No data is available on the product itself. |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Argument by analogy |
| Toxicity to algae | : No data is available on the product itself. |
| Toxicity to bacteria | : EC50 (activated sludge): > 1.000 mg/l
Method: Retarded respiration test (OECD 209)
Argument by analogy |

Components:

2-[2-(2-butoxyethoxy)ethoxy]ethanol:

- | | |
|---|--|
| Toxicity to fish | : LC50 (Pimephales promelas (fathead minnow)): 2.400 mg/l
Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): > 500 mg/l
Exposure time: 48 h |
| Toxicity to algae | : EC50 (Scenedesmus subspicatus): > 500 mg/l
Exposure time: 72 h |

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

- | | |
|---|---|
| Toxicity to fish | : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 1 - 10 mg/l
Exposure time: 96 h
Test Type: static test
value stated in literature |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202 |

DENIMCOL DIS-MIP

Version 4.3

Revision Date 23.06.2016

Print Date 07.12.2017

value stated in literature

Toxicity to algae : NOEC : > 4 mg/l
Exposure time: 28 d
Test Type: static test
value stated in literature

Toxicity to fish (Chronic toxicity) : NOEC: > 0,1 - 1 mg/l
Exposure time: 196 d
Species: Pimephales promelas (fathead minnow)
value stated in literature

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 1 - 10 mg/l
Exposure time: 32 d
value stated in literature

2-(2-butoxyethoxy)ethanol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.300 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

12.2 Persistence and degradability

Product:

Biodegradability : Test Type: DOC-CO2 measuring
Biodegradation: 30 - 70 %
Exposure time: 28 d
Method: OECD 302 B with CO2 (elimination)
Argument by analogy

Biochemical Oxygen Demand (BOD) : 140 mg/g
Incubation time: 5 d
Method: DIN EN 1899-1 (H 55)

Chemical Oxygen Demand (COD) : 724 mg/g
Method: DIN 38409-H-41

Components:

2-[2-(2-butoxyethoxy)ethoxy]ethanol:

Biodegradability : Test Type: DOC measuring
Result: Readily biodegradable.
Biodegradation: 92 %
Exposure time: 21 d
Method: OECD 301 E (elimination)

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

DENIMCOL DIS-MIP

Version 4.3

Revision Date 23.06.2016

Print Date 07.12.2017

Biodegradability : Test Type: CO2 measuring
Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d
Method: OECD 301 B (mineralisation)

2-(2-butoxyethoxy)ethanol:

Biodegradability : Test Type: O2 measuring
Result: Readily biodegradable.
Biodegradation: 76 %
Exposure time: 28 d
Method: OECD 301 D (mineralisation)

12.3 Bioaccumulative potential

Product:

Bioaccumulation : No data is available on the product itself.

Components:

2-(2-butoxyethoxy)ethanol:

Partition coefficient: n- : log Pow: 0,15 - 0,9 (20 °C)
octanol/water pH: 7
Method: OECD 117

12.4 Mobility in soil

Product:

Mobility : No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Adsorbed organic bound : The product does not increase the AOX-value of the waste
halogens (AOX) water.

Additional ecological infor- : According to our knowledge, the product does not contain
mation heavy metals and other compounds of EC directive 2000/60
EC.

DENIMCOL DIS-MIP

Version 4.3

Revision Date 23.06.2016

Print Date 07.12.2017

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : Pay attention to local or official regulations.
- Contaminated packaging : Pay attention to local or official regulations.

SECTION 14: Transport information

14.1 UN number

- ADR : Not dangerous goods
- IMDG : Not dangerous goods
- IATA : Not dangerous goods

14.2 Proper shipping name

- ADR : Not dangerous goods
- IMDG : Not dangerous goods
- IATA : Not dangerous goods

14.3 Transport hazard class

- ADR : Not dangerous goods
- IMDG : Not dangerous goods
- IATA : Not dangerous goods

14.4 Packing group

- ADR : Not dangerous goods
- IMDG : Not dangerous goods
- Segregation group : -
- IATA : Not dangerous goods

14.5 Environmental hazards

- ADR : Not dangerous goods
- IMDG : Not dangerous goods
- IATA : Not dangerous goods

14.6 Special precautions for user

- Remarks : see chapter 6 - 8

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- Remarks : Not applicable

DENIMCOL DIS-MIP

Version 4.3

Revision Date 23.06.2016

Print Date 07.12.2017

SECTION 15: Regulatory information

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

Components according to Detergents Regulation EC 648/2004 : This product is not subject to the Regulation on Detergents.

15.2 Chemical safety assessment

not required

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.
H315 : Causes skin irritation.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Chronic : Chronic aquatic toxicity
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Skin Irrit. : Skin irritation

Further information

Other information : This data sheet contains changes from the previous version in section(s):
8
11

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.