

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



grotamar® 82 *No Change Service!*

Version
05.00

Revision Date:
24.10.2018

Date of last issue: 02.05.2016
Date of first issue: 12.06.2009

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

1.1 Product identifier

Trade name : grotamar® 82

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

Use of the Sub-stance/Mixture : Preservative

1.3 Details of the supplier of the safety data sheet

Supplier : Schülke & Mayr UK Ltd.
1 Jenkin Road, Meadowhall

Sheffield S9 1AT
GREAT BRITAIN
Telephone: +44-114-254 3500
Telefax: +44-114-254 3501
mail.uk@schuelke.com
www.schuelke.com

Manufacturer/ Supplier : Schülke & Mayr GmbH
Robert-Koch-Str. 2

22851 Norderstedt
Germany
Telephone: +49 (0)40/ 52100-0
Telefax: +49 (0)40/ 52100318
mail@schuelke.com
www.schuelke.com

E-mail address of person responsible for the SDS/Contact person : SAI/AT +49 40 52100 100 or S&M UK +44 114 254 3500
sai-at@schuelke.com

1.4 Emergency telephone number

Emergency telephone number : UK Poisons Emergency number: 0870 600 6266

Emergency telephone number : +49 (0)40 / 52 100 –0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters airways.

Skin corrosion, Category 1B H314: Causes severe skin burns and eye damage.

|| Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

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Serious eye damage, Category 1	H318: Causes serious eye damage.
Germ cell mutagenicity, Category 2	H341: Suspected of causing genetic defects.
Carcinogenicity, Category 1B	H350: May cause cancer.
Specific target organ toxicity - repeated exposure, Category 2, Gastrointestinal tract, Respiratory Tract	H373: May cause damage to organs through prolonged or repeated exposure.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H373 May cause damage to organs (Gastrointestinal tract, Respiratory Tract) through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : P260 Do not breathe vapours.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label:

|| reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]

67774-74-7

Benzene, C10-13-alkyl derivatives

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Special labelling of certain mixtures : Use biocides safely. Always read the label and product information before use.

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 : Mixture

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]	- - - - - - 612-290-00-1 - - -	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318 Muta. 2; H341 Carc. 1B; H350 STOT RE 2; H373 Aquatic Chronic 2; H411 EUH071	18 - 22
Benzene, C10-13-alkyl derivatives	67774-74-7 267-051-0 - - - 01-2119489372-31-XXXX	Asp. Tox. 1; H304	70 - 85
N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine	91273-04-0 401-280-0 613-072-00-9 01-2119930450-49-xxxx	Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 2; H411	< 1
2,6-Di-tert-Butylphenol	128-39-2 204-884-0 - - - 01-2119490822-33-xxxx	Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 1

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures**4.1 Description of first aid measures**

- General advice : Take off all contaminated clothing immediately.
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Call a physician immediately.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Call a physician immediately.
- If swallowed : Do NOT induce vomiting.
Rinse mouth with water.
Give small amounts of water to drink.
Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.
- Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing media : Dry powder
Foam
Carbon dioxide (CO₂)
Water
- Unsuitable extinguishing media : No information available.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : No information available.

5.3 Advice for firefighters

- Further information : Standard procedure for chemical fires.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.
Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

see Section 8 + 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Use only in well-ventilated areas.
Handle and open container with care.

Advice on protection against fire and explosion : No special protective measures against fire required.

Hygiene measures : Take off all contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container.

Further information on storage conditions : Limited stability - see label on pack.

Advice on common storage : Keep away from food and drink.

7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
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		of exposure)		
Formaldehyde	50-00-0	Permissible exposure limit	2 ppm 2.5 mg/m ³	United Kingdom. Workplace Exposure Limits (EH40/2005): Table 1:
		Short term exposure limit	2 ppm 2.5 mg/m ³	United Kingdom. Workplace Exposure Limits (EH40/2005): Table 1:

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Benzene, C10-13-alkyl derivatives	Workers	Skin contact	Systemic effects, Long-term exposure	9.6 mg/kg
	Workers	Inhalation	Systemic effects, Long-term exposure	7 mg/m ³
	Workers	Inhalation	Local effects, Long-term exposure	7 mg/m ³
	Consumers	Skin contact	Systemic effects, Long-term exposure	4.8 mg/kg
	Consumers	Inhalation	Systemic effects, Long-term exposure	1.8 mg/m ³
	Consumers	Ingestion	Systemic effects, Long-term exposure	0.5 mg/kg
	Consumers	Inhalation	Local effects, Long-term exposure	1.8 mg/m ³

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

Substance name	Environmental Compartment	Value
Benzene, C10-13-alkyl derivatives	Fresh water	0.000075 mg/l
	Marine water	0.0075 µg/l
	Fresh water sediment	0.143 mg/kg
	Marine sediment	0.143 mg/kg
	Intermittent use/release	0.0001 mg/l
	Sewage treatment plant	14.2 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection : Impervious gloves
 Splash protection: disposable nitrile rubber gloves e.g. Dermatrill (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection.
 Prolonged contact: Butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0.70 mm) made by KCL or gloves from other manufacturers offering the same protection.

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- | | | |
|--------------------------|---|--|
| Skin and body protection | : | Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust). |
| Respiratory protection | : | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. |
| Filter type | : | Filter type AB |
| Protective measures | : | Avoid contact with skin and eyes. |
-

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | | |
|--|---|---|
| Appearance | : | Liquid |
| Colour | : | colourless, -, light yellow |
| Odour | : | amine-like |
| Odour Threshold | : | not determined |
| Freezing point | : | < -18 °C |
| Boiling point/boiling range | : | > 200 °C
Method: Directive 92/69/EEC, A.2 |
| Flash point | : | > 100 °C
Method: ISO 2719 |
| Evaporation rate | : | not determined |
| Flammability (solid, gas) | : | Not applicable |
| Upper explosion limit / Upper flammability limit | : | not determined |
| Lower explosion limit / Lower flammability limit | : | not determined |
| Vapour pressure | : | not determined |
| Vapour density | : | not determined |
| Relative density | : | 0.884 - 0.895 g/cm ³ (20 °C)
Method: Tested according to Directive 92/69/EEC. |
| Partition coefficient: n-octanol/water | : | Not applicable |
| Auto-ignition temperature | : | not determined |
| Viscosity | : | |

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Viscosity, dynamic	:	7 mPa*s (20 °C) Method: Rheo WIN RS 600
Flow time	:	< 15 s at 20 °C Method: DIN 53211
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

9.2 Other information

Surface tension	:	ca. 27 mN/m
Refractive index	:	1.474 - 1.486
Self-ignition	:	not auto-flammable

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored normally.

10.3 Possibility of hazardous reactions

Hazardous reactions : reaction with acids.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

formaldehyde

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]:

Acute oral toxicity : LD50 (Rat): 630 mg/kg
Method: OECD Test Guideline 423
Assessment: Harmful if swallowed.

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Acute inhalation toxicity	: LC50 (Rat): 2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 436 GLP: yes Assessment: Harmful if inhaled.
Acute dermal toxicity	: LD50 (Rat, female): 760 mg/kg Assessment: Toxic in contact with skin.

Benzene, C10-13-alkyl derivatives:

Acute oral toxicity	: LD50 (Rat): > 2,000 mg/kg
Acute dermal toxicity	: LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402

N,N-bis(2-ethylhexyl)-((1,2,4- triazol-1-yl)methyl)amine:

Acute oral toxicity	: LD50 Oral (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401
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2,6-Di-tert-Butylphenol:

Acute oral toxicity	: LD50 Oral (Rat): > 5,000 mg/kg
Acute dermal toxicity	: LD50 (Rabbit): > 10,000 mg/kg

Skin corrosion/irritation**Components:****reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]:**

Species	: Rabbit
Assessment	: Causes severe skin burns and eye damage.
Method	: OECD Test Guideline 404
Result	: Corrosive after 3 minutes to 1 hour of exposure
Test substance	: concentrate

Benzene, C10-13-alkyl derivatives:

Species	: Rabbit
Result	: Moderate irritant
Remarks	: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation**Components:****reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]:**

Species	: Rabbit
Assessment	: Causes serious eye damage.
Method	: OECD Test Guideline 405
Result	: Risk of serious damage to eyes.
Test substance	: concentrate

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Species	: Rabbit
Result	: No eye irritation

Respiratory or skin sensitisation**Components:****reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]:**

Species	: Guinea pig
Assessment	: The product is a skin sensitiser, sub-category 1A.
Method	: OECD Test Guideline 406
Result	: Causes sensitisation.

Benzene, C10-13-alkyl derivatives:

Test Type	: Maximisation Test
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity**Components:****reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]:**

Genotoxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Method: OECD Test Guideline 475 Remarks: Did not show mutagenic effects in animal experiments.
Germ cell mutagenicity- Assessment	: Mutagenic Category 2, Classified based on the conditions cited in Note 9 (Regulation (EC) 1272/2008, Annex VI, Part 3, Note 9).

Benzene, C10-13-alkyl derivatives:

Genotoxicity in vitro	: Result: Did not show mutagenic effects in animal experiments.
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Carcinogenicity**Components:****reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]:**

Carcinogenicity - Assessment	: May cause cancer., Classified based on the conditions cited in Note 8 (Regulation (EC) 1272/2008, Annex VI, Part 3, Note 8).
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Reproductive toxicity - Assessment : Not classified based on available information.

Benzene, C10-13-alkyl derivatives:Effects on foetal development : Species: Rat
Application Route: Oral
General Toxicity Maternal: NOAEL: 50 mg/kg body weight
Developmental Toxicity: NOAEL F1: 50 mg/kg body weight
Method: OECD Test Guideline 416
Remarks: Based on available data, the classification criteria are not met.**STOT - single exposure****Components:****reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]:**

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

STOT - repeated exposure**Components:****reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]:**Target Organs : Gastro-intestinal system, Respiratory system
Assessment : May cause damage to organs through prolonged or repeated exposure.**Repeated dose toxicity****Components:****reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]:**Species : Rat
: < 100 mg/kg
Application Route : Repeated dose (90 days) toxicity (oral)
Method : OECD Test Guideline 408**Benzene, C10-13-alkyl derivatives:**Species : Rat
LOAEL : 125 mg/kg
Application Route : Oral
Exposure time : 28 d
Method : OECD Test Guideline 407

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Aspiration toxicity**Components:****Benzene, C10-13-alkyl derivatives:**

|| May be fatal if swallowed and enters airways.

SECTION 12: Ecological information**12.1 Toxicity****Components:****reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]:**

Toxicity to fish	: LC50 (Brachidanio rerio): 57.7 mg/l
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna): 37.9 mg/l Exposure time: 48 h
Toxicity to algae	: EC50 (Desmodesmus subspicatus (green algae)): 5.7 mg/l Exposure time: 72 h
Toxicity to microorganisms	: EC50 : 44 mg/l Method: OECD Test Guideline 209

Benzene, C10-13-alkyl derivatives:

Toxicity to fish	: (Danio rerio (zebra fish)): Exposure time: 14 h Test Type: semi-static test Remarks: Aquatic toxicity is unlikely due to low solubility.
Toxicity to daphnia and other aquatic invertebrates	: (Daphnia magna (Water flea)): Exposure time: 48 h Remarks: Aquatic toxicity is unlikely due to low solubility.
Toxicity to algae	: (Scenedesmus capricornutum (fresh water algae)): Exposure time: 72 h Remarks: Aquatic toxicity is unlikely due to low solubility.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 Remarks: No toxicity at the limit of solubility

2,6-Di-tert-Butylphenol:

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 13 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 0.45 mg/l Exposure time: 48 h

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12.2 Persistence and degradability**Product:**

Physico-chemical removability : Remarks: The product is slightly soluble in water. It can be eliminated from water by abiotic processes.

Components:**reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]:**

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 306

Result: Readily biodegradable, according to appropriate OECD test.
Biodegradation: 89.8 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Benzene, C10-13-alkyl derivatives:

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

2,6-Di-tert-Butylphenol:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: < 50 %
Exposure time: 5 d

12.3 Bioaccumulative potential**Components:****reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [MBO]:**

Partition coefficient: n-octanol/water : log Pow: -0.3

Benzene, C10-13-alkyl derivatives:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Exposure time: 96 d
Concentration: 0.092 mg/l
Bioconcentration factor (BCF): 35

Partition coefficient: n-octanol/water : log Pow: > 5.0

2,6-Di-tert-Butylphenol:

Partition coefficient: n-octanol/water : log Pow: 4.5

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12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

Components:

Benzene, C10-13-alkyl derivatives:

Distribution among environmental compartments : Adsorption/Soil
Koc: 22000, log Koc: 4.34
Remarks: immobile

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 halogens (AOX) : Remarks: Product does not contain any organic halogens.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : Dispose of as special waste in compliance with local and national regulations.
Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
- Waste key for the unused product(Group) : The waste producer itself must, in consultation with the appropriate authorities and a waste disposal company, obtain a waste code from the EWC (European Waste Catalogue)
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SECTION 14: Transport information

14.1 UN number

ADR : UN 3267
IMDG : UN 3267

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IATA (Cargo) : UN 3267

14.2 UN proper shipping name

ADR : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
|| (reaction products of paraformaldehyde and 2-
hydroxypropylamine (ratio 3:2); [MBO])

IMDG : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
|| (reaction products of paraformaldehyde and 2-
hydroxypropylamine (ratio 3:2); [MBO])

IATA (Cargo) : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
|| (reaction products of paraformaldehyde and 2-
hydroxypropylamine (ratio 3:2); [MBO])

14.3 Transport hazard class(es)

ADR : 8

IMDG : 8

IATA (Cargo) : 8

14.4 Packing group

ADR
Packing group : II
Classification Code : C7
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

IMDG
Packing group : II
Labels : 8
EmS Code : F-A, S-B

IATA (Cargo)
Packing instruction (cargo : 855
aircraft)
Packing group : II
Labels : Corrosive

14.5 Environmental hazards

ADR
Environmentally hazardous : yes

IMDG
Marine pollutant : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

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

Not applicable for product as supplied.

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2	ENVIRONMENTAL HAZARDS
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Volatile organic compounds : none, Directive 2010/75/EC on the limitation of emissions of volatile organic compounds

15.2 Chemical safety assessment

Exempt

SECTION 16: Other information**Full text of H-Statements**

EUH071	: Corrosive to the respiratory tract.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
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.
H332	: Harmful if inhaled.
H341	: Suspected of causing genetic defects.
H350	: May cause cancer.
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.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Muta.	: Germ cell mutagenicity
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society

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for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008

Asp. Tox. 1, H304	: Calculation method
Skin Corr. 1B, H314	: Calculation method
Skin Sens. 1, H317	: Calculation method
Eye Dam. 1, H318	: Calculation method
Muta. 2, H341	: Calculation method
Carc. 1B, H350	: Calculation method
STOT RE 2, H373	: Calculation method
Aquatic Chronic 2, H411	: Calculation method

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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