

Grotamar 71

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 01/03/2016 Revision date: 07/02/2023 Supersedes version of: 11/03/2021 Version: 3.0

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

1.1. Product identifier

Product form : Mixture
Name : Grotamar 71
Product code : 10210
Article number : 102100

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Professional use.
Function or use category : Bactericide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Vink Chemicals GmbH & Co. KG
Eichenhöhe 29
21255 Kakenstorf
Duitsland
T +49 (0) 41 86 – 88 797 - F +49-4186-88797-10
sales@vink-chemicals.com - www.vink-chemicals.de

1.4. Emergency telephone number

Emergency number : SAI/AT +494052100100 / +310235352634

Country	Official advisory body	Address	Emergency number	Comment
	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4 H302
Acute toxicity (dermal), Category 3 H311
Acute toxicity (inhalation:dust,mist) Category 4 H332
Skin corrosion/irritation, Category 1, Sub-Category 1B H314
Skin sensitisation, Category 1 H317
Germ cell mutagenicity, Category 2 H341
Carcinogenicity, Category 1B H350
Specific target organ toxicity – Repeated exposure, Category 2 H373
Hazardous to the aquatic environment – Chronic Hazard, H411
Category 2

Full text of H- and EUH-statements: see section 16

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Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Contains

: reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [formaldehyde released from 3,3'-methylenebis [5-methyloxazolidine]; formaldehyde released from oxazolidin]; [MBO]

Hazard statements (CLP)

: H302 - Harmful if swallowed.
H311 - Toxic in contact with skin.
H332 - Harmful if inhaled.
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 (respiratory system/digestive system) through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.
P260 - Do not breathe vapours.
P273 - Avoid release to the environment.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P310 - Immediately call a POISON CENTER or doctor/physician.
P391 - Collect spillage.
P280 - Wear protective gloves, eye protection, face protection.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

EUH-statements

: EUH071 - Corrosive to the respiratory tract.

Extra phrases

: Read label before use.

2.3. Other hazards

PBT: not relevant – no registration required

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [formaldehyde released from 3,3'-methylenebis [5-methyloxazolidine]; formaldehyde released from oxazolidin]; [MBO] (Note 8)(Note 9)	CAS-No.: -- EC-No.: -- EC Index-No.: 612-290-00-1	50 – 100	Carc. 1B, H350 Muta. 2, H341 Acute Tox. 4 (Inhalation), H332 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411
formaldehyde ...% (Note B)(Note D)	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5	< 0.1	Carc. 1B, H350 Muta. 2, H341 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Skin Sens. 1, H317

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
formaldehyde ...%	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5	(0.2 ≤ C ≤ 100) Skin Sens. 1, H317 (5 ≤ C < 25) Eye Irrit. 2, H319 (5 ≤ C < 25) Skin Irrit. 2, H315 (5 ≤ C ≤ 100) STOT SE 3, H335 (25 ≤ C ≤ 100) Skin Corr. 1B, H314

- Note 8: The classification as a carcinogen shall apply unless it can be shown that the maximum theoretical concentration of releasable formaldehyde, irrespective of the source, in the mixture as placed on the market is less than 0,1 %.
- Note 9: The classification as a mutagen shall apply unless it can be shown that the maximum theoretical concentration of releasable formaldehyde, irrespective of the source, in the mixture as placed on the market is less than 1 %.
- Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: '... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
- Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. When unconsciousness transport in a recovery position.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Keep the victim warm. Call a POISON CENTER/doctor.
- First-aid measures after skin contact : Remove contaminated clothing immediately. Wash skin thoroughly with mild soap and water. Do not use solvents or thinners!. Immediately call a POISON CENTER/doctor.

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First-aid measures after eye contact	: Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Consult an eye specialist.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Drink plenty of water. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: In all cases of doubt, or when symptoms persist, seek medical attention.
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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Powder. Water haze.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Precautionary measures fire	: Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Wear suitable respiratory equipment.
Other information	: Prevent fire fighting water from entering the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Ventilate area. Avoid inhalation of vapours.
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6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Absorb spilled material with sand or earth. Collect leaking liquid in covered containers.
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6.4. Reference to other sections

(See section 7: Handling and Storage). For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Good ventilation of the workplace required. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment.
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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in original container.
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Incompatible materials : Direct sunlight. heat. Freezing.
Maximum storage period : See imprint packing for storage life.
Special rules on packaging : Observe the label precautions.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Grotamar 71	
EU - Indicative Occupational Exposure Limit (IOEL)	
Remark	Formaldehyde - CAS No. 50-00-00 -. Value VLEP - 0.15 mg / m3 SER -- Value GWBB - 0.5 mg / m3 SER
formaldehyde ...% (50-00-0)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Remark	VLEP: 0.15 mg/m3 SER - GWBB 0.5 mg/m3 SER

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses, With side shields			EN 166

8.2.2.2. Skin protection

Skin and body protection:

Use chemically protective clothing

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Skin and body protection	
Type	Standard
Wear suitable protective clothing	EN 13034,

Hand protection:

Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Safety gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	≥0.4		EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection			
Device	Filter type	Condition	Standard
In case of insufficient ventilation, wear suitable respiratory equipment	ABEK		EN 14387

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Prevent entry to sewers and public waters.

Other information:

Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: light yellow.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: -61 °C
Freezing point	: Not available
Boiling point	: 198 °C
Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 73 °C
Auto-ignition temperature	: 237 °C
Decomposition temperature	: Not available
pH	: 9.57 /0.2 gew-% (20°C)
Viscosity, kinematic	: 17.91 mm²/s
Viscosity, dynamic	: 21 mPa·s
Solubility	: Water: 999 g/l 20°C
Partition coefficient n-octanol/water (Log Kow)	: Zie rubriek 12.
Vapour pressure	: 0.014 mbar 20°C
Vapour pressure at 50°C	: Not available
Density	: 1.05 g/cm³ Methode: Ph. Eur.2.2.5 (20°C)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

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9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 1061 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions. Refer to chapter 7.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Stable at normal conditions. zie rubriek 7. Hazardous decomposition products in case of fire.

10.5. Incompatible materials

Reducing agents. Oxidizer.

10.6. Hazardous decomposition products

During handling at high temperatures : Nitrogen oxides. Carbon monoxide. Sulfur oxide. hydrogen chloride.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Additional information	: Toxic in contact with skin. Harmful if inhaled.

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LD50 oral rat	900 mg/kg (Rat, NOAEL: 72 mg / kg Toxicity (oral) Repeated dose (90 days), OECD Test Guideline 408)
LD50 oral	1207 – 1620
LD50 dermal rabbit	12.5
LC50 Inhalation - Rat	2 mg/l/4h
ATE CLP (vapours)	2 mg/l/4h
ATE CLP (dust,mist)	2 mg/l/4h

Skin corrosion/irritation	: Causes severe skin burns. pH: 9.57 /0.2 gew-% (20°C)
Additional information	: Corrosive Causes serious eye damage
Serious eye damage/irritation	: Assumed to cause serious eye damage pH: 9.57 /0.2 gew-% (20°C)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Additional information	: Sensitizer

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Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: May cause cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs (respiratory system/digestive system) through prolonged or repeated exposure.

reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [formaldehyde released from 3,3'-methylenebis [5-methyloxazolidine]; formaldehyde released from oxazolidin]; [MBO] (--

STOT-repeated exposure	May cause damage to organs (gastro-intestinal tract, respiratory tract) through prolonged or repeated exposure.
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Aspiration hazard	: Not classified
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Viscosity, kinematic	17.91 mm²/s
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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Prevent entry to sewers and public waters.
Ecology - water	: Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

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LC50 - Fish [1]	57.7 mg/l (Brachydanio rerio); 57.7 mg/l
EC50 - Crustacea [1]	37.9 mg/l (Daphnia Magna)
EC50 - Other aquatic organisms [1]	44 mg/l (OECD 209) (Bacteria)
EC50 72h - Algae [1]	5.7 mg/l (Desmodesmus subspicatus (green algae))

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water (Log Kow)	Zie rubriek 12.
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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PBT: not relevant – no registration required

12.6. Endocrine disrupting properties

No additional information available

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12.7. Other adverse effects

No additional information available

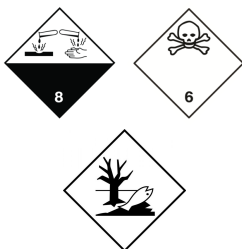
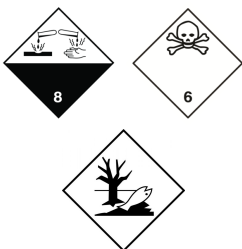
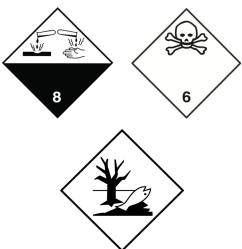
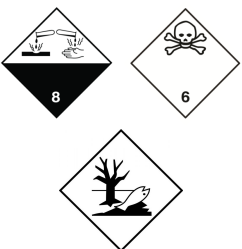
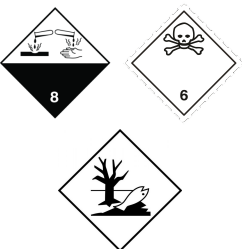
SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Prevent entry to sewers and public waters.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point.
Additional information	: Recycle after cleaning.
European List of Waste (LoW) code	: 14 06 03* - other solvents and solvent mixtures

SECTION 14: Transport information

In accordance with / / ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 2922	UN 2922	UN 2922	UN 2922	UN 2922
14.2. UN proper shipping name				
CORROSIVE LIQUID, TOXIC, N.O.S.	CORROSIVE LIQUID, TOXIC, N.O.S.	Corrosive liquid, toxic, n.o.s.	CORROSIVE LIQUID, TOXIC, N.O.S.	CORROSIVE LIQUID, TOXIC, N.O.S.
Transport document description				
UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [formaldehyde released from 3,3'-methylenebis [5-methyloxazolidine]; formaldehyde released from oxazolidin]; [MBO]), 8 (6.1), II, (E), ENVIRONMENTALLY HAZARDOUS	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [formaldehyde released from 3,3'-methylenebis [5-methyloxazolidine]; formaldehyde released from oxazolidin]; [MBO]), 8 (6.1), II, MARINE POLLUTANT/ENVIRONMNTALLY HAZARDOUS	UN 2922 Corrosive liquid, toxic, n.o.s. (reaction products of paraformaldehyde and 2-hydroxypropylamine (ratio 3:2); [formaldehyde released from 3,3'-methylenebis [5-methyloxazolidine]; formaldehyde released from oxazolidin]; [MBO]), 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)
				
14.4. Packing group				
II	II	II	II	II

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ADR	IMDG	IATA	ADN	RID
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

14.6. Special precautions for user

Emergency action in case of accident: : Transport always in closed, upright and safe containers, Ensure that persons transporting the product know what to do in the event of an accident or product spillage.

Overland transport

Classification code (ADR) : CT1
Special provisions (ADR) : 274
Limited quantities (ADR) : 1I
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container instructions (ADR) : T7
Portable tank and bulk container special provisions (ADR) : TP2
Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28
Hazard identification number (Kemler No.) : 86
Orange plates :



Tunnel restriction code (ADR) : E
EAC code : 2X
APP code : B

Transport by sea

Special provisions (IMDG) : 274
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP2
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : B
Stowage and handling (IMDG) : SW2
Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes. Toxic if swallowed, by skin contact or by inhalation.

Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity (IATA) : 0.5L
PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
Special provisions (IATA) : A3, A803
ERG code (IATA) : 8P

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Inland waterway transport

Classification code (ADN)	: CT1
Special provisions (ADN)	: 274, 802
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP, TOX, A
Ventilation (ADN)	: VE02
Number of blue cones/lights (ADN)	: 2

Rail transport

Classification code (RID)	: CT1
Special provisions (RID)	: 274
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP15
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP2
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 2
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28
Colis express (express parcels) (RID)	: CE6
Hazard identification number (RID)	: 86

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

VOC content : 1061 g/l

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

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15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Supersedes	Added	
	Revision date	Modified	
	Acute toxicity (inhalation) - comment	Added	
	Acute toxicity (dermal) - comment	Added	
	Acute toxicity (oral) - comment	Added	
	Issue date	Modified	
	Germ cell mutagenicity - comment	Added	
	Respiratory or skin sensitisation - comment	Added	
	Serious eye damage/irritation - comment	Modified	
	Skin corrosion/irritation - comment	Modified	
	SDS EU format	Modified	
1.1	Other means of identification	Added	
1.1	Name	Added	
1.1	Product code	Modified	
1.2	Function or use category	Added	
1.2	Industrial/Professional use spec	Removed	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures general	Modified	
4.1	First-aid measures after ingestion	Modified	
4.1	First-aid measures after eye contact	Modified	
4.1	First-aid measures after skin contact	Modified	
4.1	First-aid measures after inhalation	Modified	
4.2	Symptoms/effects	Added	
4.3	Other medical advice or treatment	Added	
5.1	Unsuitable extinguishing media	Added	
5.1	Suitable extinguishing media	Modified	
5.3	Precautionary measures fire	Added	
5.3	Protection during firefighting	Added	

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Indication of changes			
Section	Changed item	Change	Comments
5.3	Other information	Modified	
6.1	General measures	Modified	
6.2	Environmental precautions	Modified	
6.3	For containment	Added	
6.4	Reference to other sections (8, 13)	Modified	
7.1	Precautions for safe handling	Modified	
7.1	Hygiene measures	Added	
7.2	Special rules on packaging	Added	
7.2	Maximum storage period	Added	
8.1	Notes	Added	
8.2	Hand protection	Added	
8.2	Environmental exposure controls	Added	
8.2	Personal protective equipment	Modified	
8.2	Eye protection	Modified	
9.1	Density	Modified	
9.1	Viscosity, kinematic	Added	
9.1	Log Kow	Added	
9.1	Melting point	Added	
9.1	Auto-ignition temperature	Added	
9.1	Viscosity, dynamic	Added	
9.1	Boiling point	Modified	
9.1	pH	Modified	
9.1	Flash point	Modified	
9.1	Solubility in water	Modified	
9.1	Vapour pressure	Added	
9.1	Odour	Modified	
9.1	Oxidising properties	Added	
9.1	Explosive properties	Added	
9.2	VOC content	Added	
10.1	Reactivity	Added	
10.2	Chemical stability	Added	
10.3	Possibility of hazardous reactions	Modified	
10.4	Conditions to avoid	Added	
10.5	Incompatible materials	Added	
10.6	Hazardous decomposition products	Modified	
11.1	Additional information	Added	
11.1	Additional information	Added	
11.1	Additional information	Added	

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Indication of changes			
Section	Changed item	Change	Comments
11.1	Additional information	Added	
11.1	ATE CLP (dermal)	Modified	
11.1	LD50 oral rat	Modified	
11.1	ATE CLP (vapours)	Added	
11.1	ATE CLP (dust,mist)	Modified	
11.1	ATE CLP (oral)	Modified	
12.1	Ecology - water	Added	
12.1	Ecology - general	Added	
12.1	EC50 other aquatic organisms 1	Added	
12.1	EC50 72h algae (1)	Added	
12.1	EC50 Daphnia 1	Added	
12.1	LC50 fish 1	Added	
12.2	Chemical oxygen demand (COD)	Added	
12.3	Log Kow	Added	
13.1	Waste treatment methods	Added	
13.1	European List of Waste (LoW) code	Modified	
13.1	Waste disposal recommendations	Modified	
14.6	Emergency action in case of accident:	Added	
15.1	VOC content	Added	
15.2	Chemical safety assessment	Added	

Other information

: Abbreviations and acronyms:

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
ICAO: International Civil Aviation Organization
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2

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Full text of H- and EUH-statements:	
Carc. 1B	Carcinogenicity, Category 1B
EUH071	Corrosive to the respiratory tract.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H301	Toxic if swallowed.
H302	Harmful 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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
Muta. 2	Germ cell mutagenicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.