

Grotamar 71

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Date of issue: 3/1/2016 Revision date: 5/13/2019 Supersedes: 9/28/2018 Version: 2.0

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 : 102107

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

Schülke & Mayr Benelux B.V.
Oudeweg 8d
2031 CC Haarlem - Nederland
T +310235352634 - F +310235367970
info.benelux@schuelke.com - www.schuelke.com

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	
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	

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 1B H314
Serious eye damage/eye irritation, Category 1 H318
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, Category 2 H411
Full text of H 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)



GHS05

GHS06

GHS08

GHS09

Signal word (CLP)

: Danger

Hazardous ingredients

: 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+H332 - Harmful if swallowed or if inhaled.
H311 - Toxic in contact with skin.
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)

: P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P284 - Wear respiratory protection.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.

EUH-statements

: EUH071 - Corrosive to the respiratory tract.

Extra phrases

: Read label before use.

2.3. Other hazards

Other hazards.

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

PBT: not relevant – no registration required

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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)	(EC Index-No.) 612-290-00-1	90 - 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

Note 8 : The classification as a carcinogen need not apply if 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 need not apply if 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 %.

Full text of H-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Take off immediately all contaminated clothing.
First-aid measures after inhalation	: If you feel unwell, seek medical advice. Allow affected person to breathe fresh air.
First-aid measures after skin contact	: Wash immediately with lots of water (15 minutes)/shower. Remove contaminated clothing immediately. Call a physician immediately.
First-aid measures after eye contact	: Get immediate medical advice/attention. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth. Give water to drink. Small quantity of water.

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

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Powder. Foam. Carbon dioxide. Water.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Other information : Exercise caution when fighting any chemical fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ventilate area.

6.1.1. For non-emergency personnel

Protective equipment : Wear proper protective equipment.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel).

6.4. Reference to other sections

See Heading 8. See Heading 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Good ventilation of the workplace required. Handle and open container with care.

Hygiene measures : Take off immediately all contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container.

Incompatible materials : Direct sunlight. heat. Freezing.

Maximum storage period : See imprint packing for storage life.

Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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EU	Notes	Formaldehyde - CAS No. 50-00-00 -. Value VLEP - 0.15 mg / m ³ SER -- Value GWBB - 0.5 mg / m ³ SER
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8.2. Exposure controls

Personal protective equipment:

Safety glasses. Gloves.

Hand protection:

For prolonged contact (> 480 minutes, layer thickness 0.7mm) use Butyl rubber gloves.

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Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)		0.11		
Eye protection:					
Type	Use	Characteristics	Standard		
tightly fitting safety goggles		With side shields	EN 166		
Skin and body protection:					
Use chemically protective clothing					
Type	Standard				
Safety shoes, Chemical resistant apron	EN 14605, EN ISO 13982				
Respiratory protection:					
Ventilate area. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate breathing apparatus if air renewal not sufficient to maintain dust/vapour under TLV					
Device	Filter type	Condition	Standard		
	Filter type AB				

Personal protective equipment symbol(s):



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	: Amine-like.
Odour threshold	: No data available
pH	: ca.10, Concentration: 1.50 g/l, 20°C
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: < -35 °C (92/69/EEC, A.1)
Freezing point	: No data available
Boiling point	: 204 °C (92/69/EEC, A.2)
Flash point	: > 100 °C (ISO 2719)
Pour point	: < 15 s, 20°C, DIN 53211
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.049 - 1.069 g/ml (20°C, 92/69/EEC, A.3)
Solubility	: Soluble in water. Water: @ 20°C
Log Pow	: -0.3 (25°C, 92/69/EEC, A.8)
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

Acids.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

Formaldehyde.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Acute toxicity (dermal) : Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Acute toxicity (inhalation) : Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

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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 (mg/l)	2 mg/l/4h
ATE CLP (vapours)	2 mg/l/4h
ATE CLP (dust,mist)	2 mg/l/4h

Skin corrosion/irritation	: Rabbit, severe skin irritation, concentrate. Rabbit, no skin irritation, solution of 12.5 pH: ca.10, Concentration: 1.50 g/l, 20°C
Serious eye damage/irritation	: Rabbit, danger of serious damage to eyes, concentrate. Rabbit, no eyeirritation, solution of 0.2 pH: ca.10, Concentration: 1.50 g/l, 20°C
Respiratory or skin sensitisation	: Does not cause sensitization on laboratory animals. Guinea pig, OECD 406 test Directive.
Germ cell mutagenicity	: Did not show mutagenic effects in animal experiments
Carcinogenicity	: May cause cancer.
Reproductive toxicity	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008
STOT-single exposure	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008
STOT-repeated exposure	: May cause damage to organs (respiratory system/digestive system) through prolonged or repeated exposure.
Aspiration hazard	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Chronic aquatic toxicity : 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 Daphnia 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

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Persistence and degradability	Product is biodegradable.
Chemical oxygen demand (COD)	17.887 mg/g Test substance: 1% solution

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12.3. Bioaccumulative potential

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Log Pow -0.3 (25°C, 92/69/EEC, A.8)

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. Other adverse effects

Additional information : Product does not contain any organic halogens.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. This material and its container must be disposed of as hazardous waste.

Additional information : Recycle after cleaning.

European List of Waste (LoW) code : 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)

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN 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., 8 (6.1), II, (E), ENVIRONMENTALLY HAZARDOUS	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), II, MARINE POLLUTANT/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	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
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

Overland transport

Classification code (ADR) : CT1

Special provisions (ADR) : 274

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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

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

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

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

Excluded.

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
	UN-No. (RID)	Added	
	Number of blue cones/lights (ADN)	Added	
	Ventilation (ADN)	Added	
	Equipment required (ADN)	Added	
	Carriage permitted (ADN)	Added	

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	Excepted quantities (ADN)	Added	
	Limited quantities (ADN)	Added	
	Danger labels (ADN)	Added	
	Classification code (ADN)	Added	
	Proper Shipping Name (RID)	Added	
	Hazard identification number (RID)	Added	
	Colis express (express parcels) (RID)	Added	
	Special provisions for carriage - Loading, unloading and handling (RID)	Added	
	Transport category (RID)	Added	
	Tank codes for RID tanks (RID)	Added	
	Portable tank and bulk container special provisions (RID)	Added	
	Portable tank and bulk container instructions (RID)	Added	
	Mixed packing provisions (RID)	Added	
	Packing instructions (RID)	Added	
	Excepted quantities (RID)	Added	
	Limited quantities (RID)	Added	
	Special provisions (RID)	Added	
	Packing group (RID)	Added	
	Classification code (RID)	Added	
	ERG code (IATA)	Added	
	Special provisions (IATA)	Added	
	CAO max net quantity (IATA)	Added	
	CAO packing instructions (IATA)	Added	
	PCA max net quantity (IATA)	Added	
	PCA packing instructions (IATA)	Added	
	PCA limited quantity max net quantity (IATA)	Added	
	PCA Limited quantities (IATA)	Added	
	PCA Excepted quantities (IATA)	Added	
	Hazard labels (IATA)	Added	
	Proper Shipping Name (IATA)	Added	
	Properties and observations (IMDG)	Added	
	Proper Shipping Name (IMDG)	Added	
	Danger labels (IMDG)	Added	
	EmS-No. (Spillage)	Added	
	EmS-No. (Fire)	Added	
	Stowage and handling (IMDG)	Added	
	Stowage category (IMDG)	Added	
	Tank special provisions (IMDG)	Added	
	Tank instructions (IMDG)	Added	
	IBC packing instructions (IMDG)	Added	
	Special provisions (IMDG)	Added	

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	Special provisions for carriage - Loading, unloading and handling (ADR)	Added	
	Tank code (ADR)	Added	
	Portable tank and bulk container special provisions (ADR)	Added	
	Portable tank and bulk container instructions (ADR)	Added	
	Mixed packing provisions (ADR)	Added	
	Packing instructions (ADR)	Added	
	Vehicle for tank carriage	Added	
	Supersedes	Added	
	Revision date	Modified	
	Acute toxicity (inhalation) - comment	Added	
	Acute toxicity (dermal) - comment	Added	
	Acute toxicity (oral) - comment	Added	
	Date of issue	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	Product code	Modified	
1.1	Other means of identification	Added	
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	
2.2	Hazard pictograms (CLP)	Modified	
2.3	Other hazards.	Added	
3	Composition/information on ingredients	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	
5.3	EAC code	Added	
5.3	Other information	Modified	
7.1	Hygiene measures	Added	
7.2	Incompatible materials	Added	
7.2	Prohibitions on mixed storage	Added	
7.2	Maximum storage period	Added	

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8.1	Notes	Added	
8.2	Other information	Modified	
8.2	Respiratory protection	Modified	
8.2	Skin and body protection	Added	
8.2	Hand protection	Added	
8.2	Personal protective equipment	Modified	
8.2	Eye protection	Modified	
9.1	Density	Modified	
9.1	Oxidising properties	Added	
9.1	Explosive properties	Added	
10.1	Reactivity	Added	
10.2	Chemical stability	Added	
11.1	ATE CLP (dermal)	Added	
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	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	
14.1	UN-No. (ADN)	Added	
14.1	UN-No. (ADR)	Added	
14.1	UN-No. (IMDG)	Added	
14.1	UN-No. (IATA)	Added	
14.2	Proper Shipping Name (ADN)	Added	
14.2	Proper Shipping Name (ADR)	Added	
14.3	Danger labels (RID)	Added	
14.3	Danger labels (ADR)	Added	
14.3	Class (ADR)	Added	
14.4	Packing group (ADN)	Added	
14.4	Packing group (IATA)	Added	
14.4	Packing group (IMDG)	Added	
14.4	Packing group (ADR)	Added	
14.6	Special provisions (ADN)	Added	
14.6	Packing instructions (IMDG)	Added	
14.6	Transport category (ADR)	Added	
14.6	Special provisions (ADR)	Added	
14.6	APP code	Added	
14.6	Excepted quantities (ADR)	Added	
14.6	Limited quantities (ADR)	Added	
14.6	Tunnel restriction code (ADR)	Added	
14.6	Hazard identification number (Kemler No.)	Added	
14.6	Classification code (ADR)	Added	

Grotamar 71

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

15.2	Chemical safety assessment	Added	
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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. 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
Carc. 1B	Carcinogenicity, Category 1B
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Muta. 2	Germ cell mutagenicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1A	Skin sensitisation, category 1A
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
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.
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.
H411	Toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

SDS EU (REACH Annex II)

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.