

according to Regulation No. 1907/2006 (REACH) and Commission Regulation (EU) 2020/878

Hardener HG 700

78 Revision: Issue date: 2.1 2015-07-15

Revision date:

2021-06-16

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

1.1	Product identifier	
	Chemical name/ trade name:	Hardener HG 700
	UFI:	0EQV-70P4-900X-A4VG
	Producer:	GRM Systems s.r.o.
	Address:	Olomouc, 77900, Technologická 886/28
	Distributor:	GRM Systems s.r.o.
	Address:	Olomouc, 77900, Technologická 886/28
1.2	Relevant identified uses of the subst	ance or mixture and uses advised against
	Intended use:	Hardener for epoxy resin.
	Uses advised against:	The product must not be used in ways other than those listed in section 1.
1.3	Details of the supplier of the safety o	data sheet
	Supplier of SDS:	GRM Systems s.r.o.
	Address:	Olomouc, 77900, Technologická 886/28
	Identification No.:	26916835
	Tel:	+420 585 431 734
	www:	http://www.grm-systems.cz/
	Responsible person for this SDS:	Anna Sťahelová
1.4	Emergency telephone number	
		Toxicological Information Centre: City Hospital, Dudley Rd, Birmingham, Unite
		Kingdom, Tel.: +44 121 507 4123, 844 892 0111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to the EC Regulation No. 1272/2008 (CLP):

Chronic (long term) aquatic hazard, category 3, H412 Harmful to aquatic life with long lasting effects.
Serious eye damage, category 1, H318 Causes serious eye damage.
Skin corrosion, category 1, H314 Causes severe skin burns and eye damage.
Skin sensitisation, category 1, H317 May cause an allergic skin reaction.
Acute Toxicity, category 4, H302/312 Harmful if swallowed or in contact with skin.

2.2 Label elements

Labelling according to Regulation (EC) No Hazard pictogram(s):	1272/2008 [CLP]:
Signal word(s):	DANGER
Contain:	3-aminomethyl-3,5,5-trimethylcyclohexylamine, Benzyl alcohol
Hazard statement(s):	H302/312 Harmful if swallowed or in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.

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SAFETY DATA SHEET

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P260 Do not breathe vapors.		
P264 Wash hands thoroughly with soap after handling.		

P280 Wear protective gloves / protective clothing / eye protection.

P301/330/331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303/361/353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P310 Call a physician immediately.

P405 Store locked up.

P501 Dispose of contents / container according to the instructions in the safety data sheet section 13.

Supplemental information:

2.3 Other hazards

This mixture does not contain any substances which are classified as PBT or vPvB This product does not contain SVHC.

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

SECTION 3: **Composition/information on ingredients**

3.2 Mixtures

Name of the component	Content (weight %)	CAS EINECS Index N° Reg. Number	Classification according to Regulation (EC) No 1278/2008 (CLP)	
3-aminomethyl-3,5,5- trimethylcyclohexylamine	75-95	2855-13-2 220-666-8 612-067-00-9 01-2119514687-32-0000	Acute Tox. 4 Acute Tox. 4 Aquatic Chronic 3 Skin Corr. 1B Skin Sens. 1	H312 H302 H412 H314 H317
Benzyl alcohol	15-25	100-51-6 202-859-9 603-057-00-5 01-2119492630-38-0000	Acute Tox. 4 Acute Tox. 4	H332 H302

For full text of H-statements see SECTION 16.

SECTION 4: First aid measures

4

.1	Description of first aid measures
	General advice:

Inhalation:

Skin contact:

In case of accident or if you feel unwell, seek medical advice immediately (show the safety data sheet or label if possible).

Pause exposure. Move the affected person to fresh air quickly and for your own safety, do not let him walk! · Depending on the situation, it is recommended to rinse the oral cavity or nose with water · Change the victim if the substance is affected by clothing · Secure the victim against colds · Call an ambulance if necessary · or provide medical treatment due to the need for further monitoring for at least 24 hours.

Take off contaminated clothing. Wash the affected area with plenty of lukewarm water. If there is no skin injury, it is advisable to use soap, soap solution or shampoo. Seek medical attention.

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		Eye contact: Ingestion:	Immediately flush eyes with running water, keep of affected person has contact lenses, remove them from the inner corner to the outer one so that the neutralize! Depending on the situation, call an am treatment as soon as possible. Everyone must be of a small impact. DO NOT INDUCE VOMITING! There is a risk of per IMMEDIATELY RINSE MOUTH WITH WATER AND of thermal effect of the caustic. Due to the almost in membranes, it is better to give tap water quickly a with every minute of delay, the condition of the m or mineral water from which carbon dioxide gas m affected person must not be forced to drink, espe or throat. In this case, only allow the victim to ring SUBMIT ACTIVATED CARBON! (blackening makes condition of the mucous membranes of the digest acids and alkalis). Do not give anything by mouth convulsions. Depending on the situation, call an an soon as possible.	immediately. Rinse for e other eye is not affect bulance or arrange for sent for examination, of foration of the esopha DRINK 2-5 dl of cold wa mediate effect on the and not delay in finding nucosa is irreparably de nay be released are no cially if he already has se the mouth with wat it more difficult to exa tive tract and has no be if the victim is unconso	r 10-30 minutes ted. Never medical even in the event gus and stomach! ater to reduce the mucous g chilled liquids - amaged! Sodium t suitable. The pain in his mouth er. DO NOT mine the eneficial effect on cious or has
		Protection of first aiders:	When providing first aid, it is necessary to ensure rescued.	the safety of the rescu	er and the
	4.2	Most important symptoms and effects,	both acute and delayed No data available.		
	4.3	Indication of any immediate medical att	ention and special treatment needed Symptomatic treatment.		
SECTION 5:	Firef	ghting measures			
	5.1	Extinguishing media Suitable extinguishing media: Unsuitable extinguishing media:	Foam, extinguishing powder, CO2, water mist. Direct water flow - could cause fire to spread.		
	5.2	Special hazards arising from the substar			
	5.3	Advice for firefighters	Combustion products and hazardous gases: smoke Respiratory units exposed to smoke or vapors mu protection devices. When using in enclosed areas, Containers exposed to fire cool with water mist. C and avoid its penetration into the soil and water.	st be equipped with re an insulating respirate collect extinguishing wa	spiratory and eye or must be used. ater separately,

SECTION 6: Accidental release measures

6.1	Personal precautions, protective e	quipment and emergency procedures
		Wear suitable protective clothing, replace contaminated clothing. Avoid contact with skin and eyes, contamination of clothes and shoes. Ensure ventilation of the affected area. All persons who do not participate in rescue operations to a safe distance.
6.2	Environmental precautions	Prevent leakage into the environment, avoid ingress into surface water and sewers, soil and land. In case of leakage into the sewage system or water course, inform immediately

its administrator, the police, the fire brigade or the environmental department.



SECTION 7:

SAFETY DATA SHEET

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6.3	Methods and material for containment			
		In case of leakage, localize and, if possible, absorb smaller amounts sweep / get absorbed into a suita diatomaceous earth, soil, sand) and place in suitab transmit in accordance with applicable regulations	ble absorbent (univer le containers and labe	sal sorbent,
6.4	Reference to other sections	See section 7, 8 a 13.		
Hand	lling and storage			
7.1	Precautions for safe handling	Avoid contact with skin and eyes. Use appropriate	PPE. Use only in well-	ventilated areas

7.2 Conditions for safe storage, including any incompatibilities Store in well sealed original containers in dry, cool and well-ventilated areas. Store in a vertical position to prevent leakage and dripping. Keep away from food, feed and medication. 7.3 Specific end use(s) See section 1.2.

SECTION 8: Exposure controls/personal protection

Control parameters 8.1

Exposure limits:

According to national legislation of target country.

Substance		limits	permissible	Note
Benzyl-alcohol	100-51-6	40	80	

Substances with Community Exposure Union occupational exposure limit values in accordance with Directive 2000/39/EC (as Limits: amended).

	Limit values		
Substance	OEL (mg/m³)	STEL (mg/m³)	Note
No data available.			

DNEL:

3-aminomethyl-3,5,5-trimethylcyclohexylamine (CAS: 2855-13-2)

Exposed group and route of exposure	Duration of exposure	Type of effect	Unit	Value		
Workers						
la halati an		systemic	mg/m³	-		
Inhalation	Long-term (chronic)	local	mg/m ³	0.073		
Consumers						
Oral	Long-term (chronic)	systemic	mg/kg _{bw/d}	0.526		



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Benzyl alcohol (CAS: 100-51-6)

Exposed group and route of exposure	Duration of exposure	Type of effect	Unit	Value
Workers				
Inhalation	Long-term (chronic)	systemic	mg/m³	22
Dermal	Long-term (chronic)	systemic	mg/kg _{bw/d}	8
Consumers				
Inhalation	Long-term (chronic)	systemic	mg/m³	5.4
Dermal	Long-term (chronic)	systemic	mg/kg _{bw/d}	4
Oral	Long-term (chronic)	systemic	mg/kg _{bw/d}	4

PNEC:

3-aminomethyl-3,5,5-trimethylcyclohexylamine (CAS: 2855-13-2)

Component of the environment		PNEC	Unit	Value
	Freshwater	PNEC water, fresh.	mg/L	0.06
	Freshwater, occasional leakage	PNEC water, fresh.	mg/L	0.23
Water environment	Freshwater sediment	PNEC sed., fresh.	mg/kg sediment dw	5.784
	Seawater	PNEC water, mar.	mg/L	0.006
	Marine sediment	PNEC sed., mar.	mg/kg sediment dw	0.578
Microbiological activity	Wastewater treatment plant	PNEC sew. treat.	mg/L	3.18
Terrestrial environment /	Soil		mg/kg _{soil dw}	1.121
organisms		FINEC soil	ייי 5/ אי /5 soil dw	1.121

Benzyl alcohol (CAS: 100-51-6)

Component of the environment		PNEC	Unit	Value
	Freshwater	PNEC water, fresh.	mg/L	1
	Freshwater, occasional leakage	PNEC water, fresh.	mg/L	2.3
Water environment	Freshwater sediment	PNEC sed., fresh.	mg/kg sediment dw	5.27
	Seawater	PNEC water, mar.	mg/L	0.1
	Marine sediment	PNEC sed., mar.	mg/kg sediment dw	0.527
Microbiological activity	Wastewater treatment plant	PNEC sew. treat.	mg/L	39
Terrestrial environment /	, Soil	PNEC soil	mg/kg _{soil dw}	0.456
organisms	501	soil	ייים soil dw	0.430

8.2 Exposure controls

Technical measures:

Technical measures and appropriate work procedures take precedence over personal protective equipment. Observe the usual hygiene principles. Do not eat, drink, smoke. Before breaks and after work wash your hands with warm water and soap.

If the exposure limits are exceeded, when using dust, fog, aerosol, use a suitable filter
(type ABEK -EN 14387+A1 - anti-gas and combined filters, type P -EN 143 - particle filters,
type FFP3 / FFP2 - EN 149+A1 - Particle-based half masks; EN 142 - mouth masks).
Protective working gloves (EN 374). Observe the manufacturer's exact instructions,
including the time of use. Replace damaged gloves.
Safety glasses with side-plates or facial shields (EN 166).



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Skin protection:	Working clothes (EN ISO 13688) and footwear (EN liquid chemicals (EN 14605). Protective clothing a	,	00
Thermal hazards:	No data available.		
Environmental exposure controls:	Avoid unnecessary releases into the environment.		

SECTION 9: Physical and chemical properties

miscibility:

conductivity:

9.1 Information on basic physical and chemical properties

	Physical state: Colour: Odour: Odour threshold: pH : Melting point / freezing point (°C): Boiling point or initial boiling point and	Liquid Light blue No data available. No data available. 11 No data available. 200
	boiling range (°C):	
	Flash point (°C):	110
	Evaporation rate:	No data available.
	Flammability (gases, liquids and solids):	No data available.
	Lower and upper explosion limit:	No data available.
	Vapour pressure (20 °C):	No data available.
	Vapour pressure (50 °C):	No data available.
	Relative vapour density:	No data available.
	Density and/or relative density (g/cm ³ , 20 °C):	0.965
	Solubility (20 °C):	No data available.
	Partition coefficient n-octanol/water (log value):	No data available.
	Auto-ignition temperature:	No data available.
	Decomposition temperature:	No data available.
	Kinematic viscosity:	No data available.
	Refractive index (20 °C):	No data available.
	Oxidising properties:	No data available.
	Explosive properties:	No data available.
9.2	Other information VOC (%):	0
	Dry matter content:	No data available.
	, Additional information:	
9.2.1	Information with regard to physical hazar The product has no physical hazards.	rd classes
9.2.2	Other safety characteristics:	
	mechanical sensitivity:	No data available.
	self-accelerating polymerisation	No data available.
	temperature:	
	formation of explosible dust/air mixtures:	No data available.
	acid/alkaline reserve:	No data available.
	evaporation rate	No data available.

No data available. No data available.



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corrosiveness:	No data available.
gas group:	No data available.
redox potential:	No data available.
radical formation potential:	No data available.
photocatalytic properties:	No data available.

SECTION 10: Stability and reactivity

10.1	Reactivity	Not expected under proper conditions of use.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	Dangerous reactions are not known.
10.4	Conditions to avoid	Comply with the handling and storage conditions set out in Section 7.
10.5	Incompatible materials	Strong oxidizing agents, strong acids, strong alkalines.
10.6	Hazardous decomposition products	Hazardous decomposition products are not known.

SECTION 11: Toxicological information

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

3-aminomethyl-3,5,5-trimethylcyclohexylamine (CAS: 2855-13-2)

Acute toxicity:

Test type	Results	Exposure	Tested organisms
OECD 401, key study	1 030 mg/kg bw	oral: gavage	rat
OECD 402, key study	> 2 000 mg/kg bw	dermal	rat
OECD 403, key study	>= 1.07 - <= 5.01 mg/L air (analytical) > 5.01 mg/L air (analytical) > 5.01 mg/L air (analytical)	inhalation: aerosol	rat

Serious eye damage / irritation:

Test type	Results	Exposure	Tested organisms
	No data available.		

Skin corrosion / irritation:

Test type	Results	Exposure	Tested organisms
	No data available.		

Respiratory or skin sensitisation:

Test type	Results	Exposure	Tested organisms
	No data available.		

STOT - single exposure:

Test type	Results	Exposure	Tested organisms
	No data available.		



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STOT - repeated exposure:

Test type	Results	Exposure	Tested organisms	
OECD 408, key study	160 mg/kg bw/day (nominal), LOAEL 59 mg/kg bw/day (actual dose received), NOAEL 62 mg/kg bw/day (actual dose received), NOAEL	oral	rat	
supporting study	18 mg/m³ air, LOEC	inhalation	rat	

Carcinogenicity:

Test type	Results	Exposure	Tested organisms
	No data available.		

Germ cell mutagenicity:

Test type	Results	Exposure	Tested organisms
OECD 474, key study	negative	oral: unspecified	mouse

Reproductive toxicity:

Test type	Results	Exposure	Tested organisms
OECD 421, supporting study		oral: drinking water	rat

Aspiration hazard:

Test type	Results	Exposure	Tested organisms
	No data available.		

Benzyl alcohol (CAS: 100-51-6)

Acute toxicity:

Test type	Results	Exposure	Tested organisms
key study	1.55 mL/kg bw, LD50 1 mL/kg bw, other:	oral: gavage	rat
weight of evidence	> 2 000 mg/kg bw, LD50	dermal	rabbit
OECD 403, key study		inhalation: aerosol	rat

Serious eye damage / irritation:

Test type	Results	Exposure	Tested organisms
other information	moderately irritating	Eye	rabbit

Skin corrosion / irritation:

Test type	Results	Exposure	Tested organisms
other information	moderately irritating	Skin	guinea pig

Respiratory or skin sensitisation:



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Test type	Results	Exposure	Tested organisms
weight of evidence	GHS criteria not met	Skin	other:

STOT - single exposure:

Test type	Results	Exposure	Tested organisms
	No data available.		

STOT - repeated exposure:

Test type	Results	Exposure	Tested organisms
key study	400 mg/kg bw/day (actual dose received), NOAEL	oral	rat
OECD 412, key study	1 072 mg/m³ air (analytical), NOAEC	inhalation	rat

Carcinogenicity:

Test type	Results	Exposure	Tested organisms
other information	other: >= 10 - <= 15, other:	in-vitro test	other:

Germ cell mutagenicity:

Test type	Results	Exposure	Tested organisms
other information	other:	oral: feed	Drosophila melanogaster

Reproductive toxicity:

Test type	Results	Exposure	Tested organisms
key study	200 mg/kg bw/day (actual dose received), NOAEL 800 mg/kg bw/day (actual dose received), NOAEL	oral: gavage	mouse

Aspiration hazard:

Test type	Results	Exposure	Tested organisms
	No data available.		

Mixture:

Acute toxicity:	Harmful if swallowed or in contact with skin.
Serious eye damage / irritation:	Causes serious eye damage.
Skin corrosion / irritation:	Causes severe skin burns and eye damage.
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
STOT - single exposure:	The product does not meet the criteria for classification.
STOT - repeated exposure:	The product does not meet the criteria for classification.
Carcinogenicity:	The product does not meet the criteria for classification.
Germ cell mutagenicity:	The product does not meet the criteria for classification.
Reproductive toxicity:	The product does not meet the criteria for classification.
Aspiration hazard:	The product does not meet the criteria for classification.

11.2 Information on other hazards

Endocrine disrupting properties

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.



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Other information:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

3-aminomethyl-3,5,5-trimethylcyclohexylamine (CAS: 2855-13-2)

Toxicity	Tested organisms	Results	Test type
		140 mg/L, LC100 / 96 h	
Acute toxicity to fish	Leuciscus idus	110 mg/L, LC50 / 96 h	
		70 mg/L, LC0 / 96 h	
		66.4 mg/L, EC100 / 48 h	
Acute toxicity to invertebrates	Danhaia magna	23 mg/L, EC50 / 48 h	OECD 202
Acute toxicity to liver tebrates	Daphnia magna	8.3 mg/L, NOEC / 48 h	OECD 202
		27 mg/L, EC50 / 24 h	
		37 mg/L, EC50 / 72 h	
	Desmodesmus subspicatus	3.1 mg/L, EC10 / 72 h	
Acute toxicity to aquatic algae	(previous name: Scenedesmus	> 50 mg/L, EC50 / 72 h	
	subspicatus)	11.2 mg/L, EC10 / 72 h	
		1.5 mg/L, NOEC / 72 h	

Benzyl alcohol (CAS: 100-51-6)

Toxicity	Tested organisms	Results	Test type
		770 mg/L, LC50 / 1 h	
		770 mg/L, LC50 / 24 h	
Acute toxicity to fish	Pimephales promelas	770 mg/L, LC50 / 48 h	
		460 mg/L, LC50 / 72 h	
	460 mg/L, LC50 / 96 h	460 mg/L, LC50 / 96 h	
Acute toxicity to invertebrates	Daphnia magna	230 mg/L, EC50 / 48 h	OECD 202
	Pseudokirchneriella subcapitata	770 mg/L, EC50 / 72 h	
A outo tovicity to pountic place	(previous names: Raphidocelis	310 mg/L, NOEC / 72 h	0500 201
Acute toxicity to aquatic algae	subcapitata, Selenastrum	500 mg/L, EC50 / 72 h	OECD 201
	capricornutum)	310 mg/L, NOEC / 72 h	

No data available.

- 12.2 Persistence and degradability No data available.
- 12.3 Bioaccumulative potential No data available.
- 12.4 Mobility in soil

12.6 Endocrine disrupting properties

12.5 Results of PBT and vPvB assessment This mixture does not contain any substances which are classified as PBT or vPvB

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

12.7 Other adverse effects No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Catalogue No. of mixture waste:

08 01 11 waste paint and varnish containing organic solvents or other dangerous substances



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Waste codes / waste designations according to LoW:	15 01 10 packaging containing residues of or conta	minated by dangerous	substances
Recommended procedure for mixture waste disposal:	No data available.		
Recommended procedure for packaging disposal:	Empty containers must be disposed of in accordance After perfect cleaning, the packaging can be used a same purpose. Recommended way of disposing of incinerator or storing hazardous waste.	s a secondary raw mat	terial for the
Physical / chemical properties that may affect waste treatment method:	No data available.		
Sewage disposal-relevant information:	Protect against weathering. Prevent leakage of was system. In case of leakage, inform the competent a		il / sewage
Other disposal recommendations:	Dispose of in accordance with applicable legislation	1.	

SECTION 14: Transport information

	Type of transport	Land transport ADR/RID	Sea transport IMDG	Air Transport ICAO / IATA
14.1	UN number or ID number	2735	2735	2735
14.2	UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5- trimethylcyclohexylamine)	AMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5- trimethylcyclohexylamine)	AMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5- trimethylcyclohexylamine)
	Transport hazard class(es)	8	8	8
	Classification code	80	-	-
	EmS	-	F-A, S-B	-
14.3	Packaging instructions	P001 / IBC03 / LP01 / R001	P001;LP01 / IBC03	(passanger/cargo) 852 / 856
	Labels		8	
14.4	Packing group	111		

14.5 Environmental hazards No data available.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments Not specified.

Other information

Type of transport	Land transport ADR/RID	Sea transport IMDG	Air Transport ICAO / IATA
Limited quantities:	5 L	5 L	Y841
Excepted quantities:	E1	E1	E1



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Transport category:	3	-	-
Tunnel restriction code:	(E)	-	-
Segregation group:	-	SGG18;SG35	-

SECTION 15: Regulatory information

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

Regulation (EC) No. 1272/2008 (CLP) on classification, labelling and packaging of substances and mixtures,... Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH),... Applicable national regulations.

15.2 Chemical safety assessment A chemical safety assessment has	been performed.
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SECTION 16: Other information

Complete text of all classifications and hazard classes referred to in SECTION 3

Hazard class:	Acute Tox. 4 - Acute Toxicity, category 4 Aquatic Chronic 3 - Chronic (long term) aquatic hazard, category 3 Skin Corr. 1B - Skin corrosion, category 1B Skin Sens. 1 - Skin sensitisation, category 1
H-statements:	H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H412 Harmful to aquatic life with long lasting effects.

Abbreviations:

ADN	Inland waterways
ADR	Accord Dangereuses Route
CAS	Chemical Abstracts Service
DNFI	Derived no-effect level
EC50	Effect concentration for 50%
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effect level for 50%
IATA	International Air Transport Association
IC50	Inhibition concentration for 50%
ICAO	International Civil Aviation Organization
IL 50	Inhibition load for 50%
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration for 50%
LD50	Lethal dose for 50%
LL50	Lethal load for 50%
LOAEC	Lowest observable adverse effect concentration
LOAEL	Lowest observable adverse effect level
LOEC	Lowest observable effect concentration
LOEL	Lowest observable effect level
NEL	No effect level
NOAEC	No observable adverse effect concentration
NOAEL	No observable adverse effect level
NOEC	No observable effect concentration
NOEL	No observable effect level
NPK-P	Maximum permissible concentration



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OEL	Occupational Exposure Limit (workplace exposure limit - 8 hours / shift)		
PBT	Persistent, bioacumulative and toxic		
PEL	Permissible exposure limits		
PNEC	Predicted no-effect concentration		
RID	Regulations for the International Carriage of Dangerous Goods by Rail		
SCL	Specific concentration limits		
STEL	Short Term Exposure Limit (short exposure - corresponds to approx. 15 min.)		
TT	Toxic threshold		
VOC	Volatile organic substances		
vPvB	Very persistent and very bioacumulative		

WGK Hazard classes for water (Wassergefährdungsklassen)

Changes to previous version SDS:

This revision follows the revision: 2018-06-08 and complies with Regulations (EC) No. 1907/2006 (REACH) and No. 1272/2008 (CLP).

Key literature references and sources for data: Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH), as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council, as amended. Act No. 350/2011 Coll., On chemical substances and chemical mixtures, as amended. Principles for providing first aid during exposure to chemical substances (Assoc. Prof. Daniela Pelclová, MD, CSc., Alexandr Fuchs, MD, CSc., Miroslava Hornychová, MD, CSc., Zdeňka Trávníčková, MD, CSc., Jiřina Fridrichovská, prom. Chem. .). Data from the manufacturer of the substance / mixture, if available - data from the registration dossier. (1)

Classification was performed by calculation method.

Instructions for training:

Workers who come into contact with dangerous substances must be aware of the effects of these substances, how they are treated, and protective measures to the extent necessary.

Furthermore, they must be familiar with the first aid principles, with the necessary sanitation procedures and with the procedures for disaster and accident elimination.

The person handling this chemical product must be familiar with the safety rules and the data given in the safety data sheet.

If a hazardous chemical / mixture is classified as corrosive or toxic, workers should be made aware of the Corrosive / Toxic Chemicals / Mixing Rules.

Persons carrying dangerous substances must be familiar with the ADR / RID accident instructions.

Other information:

The above information describes the conditions for safe handling of the product and corresponds to the current knowledge of the manufacturer and serves as instruction for the training of the persons handling the product.

The manufacturer carries guarantee the above-described properties of the product at the recommended use.

The user is responsible for determining the suitability of the product for specific purposes and adapting security measures if such application is contrary to the manufacturer's recommendations.