

Version: 2.2	Revision Date: 20.10.2017	Print Date: 21.10.2017			
SECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1 Product identifier					
Trade name	: I211-K60 hebro®cid LK				
1.2 Relevant identified uses of t	the substance or mixture and uses ad	vised against			
Use of the Sub- stance/Mixture	: Biocidal product, Preservatives for cessing systems	liquid-cooling and pro-			
Recommended restrictions on use	: Restricted to professional users.				
1.3 Details of the supplier of the	e safety data sheet				
Company	: hebro chemie- ZN der Roc GmbH Rostocker Str. 40 41199 Mönchengladbach	kwood Specialties Group			
Contact person Telephone Telefax	: Wolfgang Schaffers : +49 (0) 2166 6009-0 : +49 (0) 2166 6009-99				

4 Emanuel talent and number	
E-mail address	: wolfgang.schaffers@chemetall.com
Telephone	: +49(0)2166 6009-176
Contact person product safety	Abteilung Produktsicherheit

#### 1.4 Emergency telephone number

: Giftinformationszentrum Erfurt: +49 (0) 361 730 730

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008)Acute toxicity, Category 4H302: Harmful if swallowed.Skin irritation, Category 2H315: Causes skin irritation.Skin sensitisation, Category 1H317: May cause an allergic skin reaction.Serious eye damage, Category 1H318: Causes serious eye damage.Acute aquatic toxicity, Category 1H400: Very toxic to aquatic life.Chronic aquatic toxicity, Category 2H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)



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Hazard pictograms	:		
Signal word	:	Danger	
Hazard statements	:	<ul> <li>H302 Harmful if swallowed.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin read</li> <li>H318 Causes serious eye damage.</li> <li>H410 Very toxic to aquatic life with log</li> </ul>	
Precautionary statements	:	P273 Avoid release to the environme <b>Prevention:</b>	nt.
		P280 Wear protective gloves/ eye pro	otection/ face protection.
		Response: P301 + P330 + P331 IF SWALLOWE NOT induce vomiting. P302 + P352 IF ON SKIN: Wash with P305 + P351 + P338 IF IN EYES: Rin ter for several minutes. Remove contact easy to do. Continue rinsing. P310 Immediately call a POISON CE	n plenty of water. nse cautiously with wa- t lenses, if present and

Hazardous components which must be listed on the label: Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol

a mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

#### **Additional Labelling**

Use biocides safely. Always read the label and product information before use.

#### 2.3 Other hazards

No data available The information required is contained in this Material Safety Data Sheet.

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

#### 3.2 Mixtures

Chemical nature : Preparation based on isothiazolinones

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
Bronopol (INN); 2-bromo-2- nitropropane-1,3-diol	52-51-7 200-143-0 01-2119980938-15	Acute Tox. 4; H312 Acute Tox. 4; H302 STOT SE 3; H335 Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 10 - < 15



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		Aquatic Acute 1; H400 Aquatic Chronic 2; H411	
a mixture of: 5-chloro-2-methyl- 2H-isothiazol-3-one and 2-methyl- 2H-isothiazol-3-one (3:1)	55965-84-9 611-341-5	Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Skin Sens. 1A; H317 Aquatic Chronic 1; H410 M-Factor Acute aquatic toxicity:10 M-Factor Chronic aquatic toxicity:1	>= 0.25 - < 0.6

For explanation of abbreviations see section 16.

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

	General advice :	:	Move out of dangerous area. Do not leave the victim unattended. If symptoms persist, call a physician.
	If inhaled :	:	Move to fresh air. If symptoms persist, call a physician.
	In case of skin contact :	:	After contact with skin, wash immediately with plenty of soap and water. Remove contaminated clothing and shoes.
	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 :	:	Call a physician immediately. Keep at rest. Clean mouth with water and drink afterwards plenty of water. Prevent vomiting if possible.
4.2	Most important symptoms and	l e	ffects, both acute and delayed
	Symptoms :	:	Erythema Gastrointestinal discomfort Irritation
	Risks :	:	Health injuries may be delayed. May cause an allergic skin reaction.



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4.3 Indication of any immediate	me	dical attention and special treatm	nent needed
Treatment	:	Treat symptomatically. For specialist advice physicians s Information Service.	hould contact the Poisons
SECTION 5: Firefighting meas	sur	es	
5.1 Extinguishing media			
Suitable extinguishing media	:	Use water spray, alcohol-resistan bon dioxide.	t foam, dry chemical or car-
Unsuitable extinguishing media	:	High volume water jet	
5.2 Special hazards arising from	the	e substance or mixture	
Specific hazards during fire- fighting	:	Hazardous decomposition productions. Carbon dioxide (CO2) Carbon monoxide Nitrogen oxides (NOx)	cts formed under fire condi-
5.3 Advice for firefighters			
Special protective equipment for firefighters	:	In the event of fire, wear self-cont	ained breathing apparatus.
Further information	:	Use water spray to cool unopener Fire residues and contaminated fi be disposed of in accordance with	ire extinguishing water must
SECTION 6: Accidental releas	se r	neasures	
6.1 Personal precautions, protect	tiv	e equipment and emergency pro	cedures
Personal precautions	:	Handle in accordance with good i practice. Refer to protective measures liste	ndustrial hygiene and safety
6.2 Environmental precautions			
Environmental precautions	:	Do not empty into drains. Inform the relevant authorities if it ronment or soil.	enters sewers, aquatic envi-
6.3 Methods and material for cor	ntai	nment and cleaning up	
Methods for cleaning up	:	Contaminated surfaces will be ex Contain spillage, soak up with no material, (e.g. sand, earth, diatom and transfer to a container for dis national regulations (see section Keep in suitable, closed container	n-combustible absorbent naceous earth, vermiculite) posal according to local / 13).

Keep in suitable, closed containers for disposal.



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<b>6.4 Reference to other sections</b> See chapter 8 and 13			
SECTION 7: Handling and sto	ra	ge	
7.1 Precautions for safe handling	3		
Advice on safe handling	:	Do not breathe vapours or spray mist Avoid contact with skin and eyes. Wash hands before breaks and at the	
Advice on protection against fire and explosion	:	Normal measures for preventive fire p	protection.
7.2 Conditions for safe storage, i	inc	luding any incompatibilities	
Requirements for storage areas and containers	:	Do not use containers made of light r per or copper alloy containers. Conta must be carefully resealed and kept u age.	iners which are opened
Further information on stor- age conditions	:	Protect from frost.	
Advice on common storage	:	No materials to be especially mentior	ned.
7.3 Specific end use(s)			
Specific use(s)	:	Biocide Preservatives for liquid-cooling and p	rocessing systems

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

Substance name	Environmental Compartment	Value
Bronopol (INN); 2-bromo-2-	Fresh water	0.01 mg/l
nitropropane-1,3-diol		
	Marine water	0.0008 mg/l
	Sewage treatment plant	0.43 mg/l
	Fresh water sediment	0.41 mg/kg dry
		weight (d.w.)
	Marine sediment	0.00328 mg/kg
		dry weight (d.w.)
	Soil	0.5 mg/kg dry
		weight (d.w.)

#### 8.2 Exposure controls

#### Engineering measures

Handle in accordance with good industrial hygiene and safety practice.



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<b>Personal protective equipme</b> Eye protection	ent :	Safety glasses with side-shields confe	orming to EN166
Hand protection Material	:	Chemical resistant gloves made of buber category III according to EN 374.	utyl rubber or nitrile rub-
Remarks	:	The choice of an appropriate glove do its material but also on other quality for from one producer to the other. The e can be obtained from the protective g has to be observed.	eatures and is different exact break through time
Skin and body protection	:	protective suit	
Respiratory protection	:	Use respirator when performing operative exposure to vapour of the product.	ations involving potential
Protective measures	:	Follow the skin protection plan.	

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	colourless
Odour	:	mild
Odour Threshold	:	No data available
рН	:	6.0 (20 °C) Concentration: 10.0 g/l
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	100 °C Method: DIN 51751
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	2 hPa Information taken from reference works and the literature.
Relative vapour density	:	No data available
Relative density	:	No data available



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Density	:	1.08 g/cm³ (20 °C) Method: DIN 51757	
Solubility(ies) Water solubility	:	completely soluble	
Solubility in other solvents	:	No data available	
Partition coefficient: n- octanol/water	:	No data available	
Auto-ignition temperature	:	No data available	
Decomposition temperature	:	No data available	
Viscosity, dynamic	:	No data available	
Viscosity, kinematic	:	No data available	
Flow time	:	No data available	
Explosive properties	:	No data available	
Oxidizing properties	:	No data available	

# 9.2 Other information

Other physico-chemical properties: This information is not available/not determined.

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions			
Hazardous reactions	: No dangerous reaction known under conditions of normal use.		
<b>10.4 Conditions to avoid</b> Conditions to avoid	: Protect from frost, heat and sunlight. Product is stable under appropriate usage.		
<b>10.5 Incompatible materials</b> Materials to avoid	: reaction with reduction materials. reaction with oxidizers.		



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#### **10.6 Hazardous decomposition products**

Carbon dioxide (CO2) Carbon monoxide Nitrogen oxides (NOx) sulphur dioxide (toxic).

### **SECTION 11: Toxicological information**

#### **11.1 Information on toxicological effects**

Product:		
Acute oral toxicity	: Acute toxicity estimate: > 2,00 Method: Calculation method	ጋ mg/kg
Acute inhalation toxicity	: Acute toxicity estimate: > 20 m Exposure time: 4 h Test atmosphere: vapour Method: Calculation method	ıg/l
Acute dermal toxicity	: Acute toxicity estimate: > 2,00 Method: Calculation method	0 mg/kg

#### Acute toxicity

#### Components:

# Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol:Acute oral toxicity:LD50 (Rat): 305 mg/kg<br/>Method: OECD Test Guideline 401Acute dermal toxicity:LD50 (Rat): > 2,000 mg/kg<br/>Method: OECD Test Guideline 402

# a mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Acute oral toxicity	:	LD50 (Rat): 457 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 2.36 mg/l Exposure time: 4 h
Acute dermal toxicity	:	LD50 (Rabbit): 660 mg/kg

#### Skin corrosion/irritation

#### Product:

Remarks: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

#### Serious eye damage/eye irritation

#### Product:

Remarks: The liquid splashed in the eyes may cause irritation and reversible damage.



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#### Respiratory or skin sensitisation

#### Product:

Remarks: No data available

#### Germ cell mutagenicity

#### Product:

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

#### Carcinogenicity

#### Product:

Carcinogenicity - Assess- : Not classifiable as a human carcinogen. ment

#### **Reproductive toxicity**

#### Product:

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

#### STOT - single exposure

#### Product:

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

#### STOT - repeated exposure

#### Product:

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

#### Aspiration toxicity

#### Product:

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

#### Further information

#### Product:

Remarks: Health injuries are not known or expected under normal use.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### Product:

Ecotoxicology studies for the product are not available.

#### Components:

#### Bronopol (INN); 2-bromo-2-nitropropane-1,3-diol:

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LC50 (Oncorhynchus mykiss (rainbow trout)): 41.2 mg/l Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): 39.1 mg/l Exposure time: 49 d Method: OECD Test Guideline 210



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Toxicity to daphnia and other aquatic invertebrates	:	EC50 : 1.4 mg/l Exposure time: 48 h	
		NOEC (Daphnia magna (Water fl Exposure time: 21 d Method: OECD Test Guideline 2 <sup>-</sup>	
Toxicity to algae	:	EC50 : 0.4 - 2.8 mg/l Exposure time: 72 h	
Toxicity to microorganisms	:	EC20 (activated sludge): 2 mg/l Exposure time: 150 min Method: OECD Test Guideline 20	99
a mixture of: 5-chloro-2-met	hyl	-2H-isothiazol-3-one and 2-meth	yl-2H-isothiazol-3-one (3:1):
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rai Exposure time: 96 h	
		LC50 (Lepomis macrochirus (Blu Exposure time: 96 h	egill sunfish)): 0.28 mg/l
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water fle Exposure time: 48 h Test Type: Immobilization	ea)): 0.16 mg/l
		NOEC (Daphnia magna (Water fi Exposure time: 21 d	ea)): 0.035 mg/l
Toxicity to algae	:	EC50 (Scenedesmus capricornut 0.027 mg/l Exposure time: 72 h	um (fresh water algae)):
M-Factor (Acute aquatic tox- icity)	:	10	
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): 0.7 Exposure time: 16 h	′9 mg/l
M-Factor (Chronic aquatic toxicity)	:	1	
12.2 Persistence and degradabili	ity		
Product:			
Biodegradability	:	Remarks: No data available	
12.3 Bioaccumulative potential			
Product: Bioaccumulation	:	Remarks: No data available	
Components:			
a mixture of: 5-chloro-2-met	hyl	-2H-isothiazol-3-one and 2-meth	yl-2H-isothiazol-3-one (3:1):



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Partition coefficient: n- octanol/water	:	log Pow: -0.486	
12.4 Mobility in soil			
Product:			
Mobility	:	Remarks: No data available	
12.5 Results of PBT and vPvB assessment			
Product:			
Assessment	:	No data available.	
12.6 Other adverse effects			
Product:			
Additional ecological infor- mation	:	Do not flush into surface water or	sanitary sewer system.
SECTION 13: Disposal cons	sider	ations	

# 13.1 Waste treatment methods

-			
	Product	:	Do not let product enter drains. Do not dispose of with domestic refuse. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
	Contaminated packaging	:	Dispose of in accordance with local regulations.
	Waste Code	:	070499 / 070699 : wastes not otherwise specified

# **SECTION 14: Transport information**

# 14.1 UN number

ADR	: UN 3082
RID	: UN 3082
IMDG	: UN 3082
ΙΑΤΑ	: UN 3082
14.2 UN proper shipping na	ame
ADR	<ul> <li>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chloro-methyl isothiazolinone)</li> </ul>
RID	<ul> <li>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chloro-methyl isothiazolinone)</li> </ul>
IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.



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		(Chloro-methyl isothiazolinone)	
ΙΑΤΑ	:	Environmentally hazardous substance (Chloro-methyl isothiazolinone)	, liquid, n.o.s.
14.3 Transport hazard class(es)			
ADR	:	9	
RID	:	9	
IMDG	:	9	
ΙΑΤΑ	:	9	
14.4 Packing group			
ADR			
Packing group Classification Code	÷	III M6	
Hazard Identification Number	÷	90	
Labels	:	9	
Tunnel restriction code	:	(E)	
RID			
Packing group Classification Code	:	III M6	
Hazard Identification Number	÷	90	
Labels	:	9	
IMDG			
Packing group Labels	÷	 9	
EmS Code	÷	5 F-A, S-F	
Remarks	:	"IMDG-Code segregation group not ap	oplicable".
IATA (Cargo)			
Packing instruction (cargo	:	964	
aircraft)			
Packing instruction (LQ) Packing group	÷	Y964 III	
Labels	:	Miscellaneous Dangerous Goods	
IATA (Passenger)		5	
Packing instruction (passen- ger aircraft)	:	964	
Packing instruction (LQ)	:	Y964	
Packing group	:		
	:	Miscellaneous Dangerous Goods	
14.5 Environmental hazards			
<b>ADR</b> Environmentally hazardous	:	no	
<b>RID</b> Environmentally hazardous	:	no	
IMDG Marine pollutant	:	yes	
IATA (Passenger) Marine pollutant	:	yes	



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IATA (Cargo) Marine pollutant	: yes		
14.6 Special precautions for Refer to protective mea	or user sures listed in sections 7 and 8.		
14.7 Transport in bulk according to the second seco	ording to Annex II of Marpol and act as supplied.	the IBC Code	
SECTION 15: Regulatory	information		
15.1 Safety, health and env ture	rironmental regulations/legislati	on specific for	the substance or mix-
International Chemical Schedules of Toxic Che	Neapons Convention (CWC) micals and Precursors	: Neither bar	nned nor restricted
Restrictions on the mark ous substances and pre	keting and use of certain danger- parations	: Neither bar	nned nor restricted
	0/2012 of the European Parlia- oncerning the export and import	: Neither bar	nned nor restricted
REACH - Candidate Lis Concern for Authorisation	t of Substances of Very High on (Article 59).	stances of	ct does not contain sub- very high concern (Regu- No 1907/2006 (REACH),
Other regulations : The product is classified and labelled in accordanc directives or respective national laws. Regional or national implementations of GHS may ment all hazard classes and categories.		n accordance with EC of GHS may not imple-	

# 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

# **SECTION 16: Other information**

#### Full text of H-Statements

H301	:	Toxic if swallowed.	
H302	:	Harmful if swallowed.	
H311	:	Toxic in contact with skin.	
H312	1	Harmful in contact with skin.	
H314	1	Causes severe skin burns and eye damage.	
H315	:	Causes skin irritation.	
H317	:	May cause an allergic skin reaction.	
H318	:	Causes serious eye damage.	
H331	:	Toxic if inhaled.	
H335	:	May cause respiratory irritation.	
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	

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Acute aquatic toxicity



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Aquetia Chronia			
Aquatic Chronic		Chronic aquatic toxicity	
Eye Dam.	:	Serious eye damage	
Skin Corr.		Skin corrosion	
Skin Irrit.		Skin irritation	
Skin Sens.	:	Skin sensitisation	
STOT SE	:	Specific target organ toxicity - single ex	posure

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 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; 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

Other information : The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product. This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

GB / EN