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# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.05.2015 Version number 1 Revision: 19.05.2015 SECTION 1: Identification of the substance/mixture and of the company/undertaking - 1.1 Product identifier - Trade name: ergo 7418 - 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. - Application of the substance / the mixture Epoxy resin adhesive - 1.3 Details of the supplier of the safety data sheet - Manufacturer/Supplier: Kisling AG Motorenstrasse 102 CH-8620 Wetzikon Telefon: +41-(0) 58-272 0 272 Telefax: +41-(0) 58-272 0 273 - Further information obtainable from: Safety Department - Department issuing MSDS: ergo@kisling.com - 1.4 Emergency telephone number: Swiss Toxicological Information Centre: +41-(0) 44-2 51 51 51 **SECTION 2: Hazards identification** - 2.1 Classification of the substance or mixture - Classification according to Regulation (EC) No 1272/2008 Skin Irrit. 2 H315 Causes skin irritation. Eve Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. - Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi: Irritant R36/38: Irritating to eyes and skin. Xi; Sensitising May cause sensitisation by skin contact. R43: N; Dangerous for the environment Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53: - Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. - Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data. - 2.2 Label elements - Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. - Hazard pictograms GHS09 GHS07 - Signal word Warning (Contd. on page 2)

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#### Trade name: ergo 7418

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	mining components of labelling:
	ct: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700)
Hazard staten	nents
H315 Causes s	kin irritation.
H319 Causes s	erious eye irritation.
H317 May cau	se an allergic skin reaction.
H411 Toxic to	aquatic life with long lasting effects.
Precautionary	y statements
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, i present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local/regional/national/internationa regulations.
Additional inf	formation:
EUH205 Conta	ains epoxy constituents. May produce an allergic reaction.
2.3 Other haz	ards
<b>Results of PB</b>	Γ and vPvB assessment
<b>PBT:</b> Not appl	icable.
<b>vPvB:</b> Not app	

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

#### - 3.2 Mixtures

- Description: Adhesive

- Dangerous components:				
CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	25-<100%		
NLP: 500-033-5	(number average molecular weight $\leq 700$ )			
Index number: 603-074-00-8	Xi R36/38; Xi R43; N R51/53			
	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317			
Additional information: For the wording of the listed risk phrases rafer to section 16				

- Additional information: For the wording of the listed risk phrases refer to section 16.

#### **SECTION 4: First aid measures**

#### - 4.1 Description of first aid measures

- General information: Remove any clothing soiled by the product.
- After inhalation:
- Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact:

After contact with skin, wash immediately with plenty of soap and water.

- If skin irritation continues, consult a doctor.
- After eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- After swallowing:
- Rinse out mouth and then drink plenty of water.
- If swallowed, do not induce vomiting: seek medical advice and show this container or label.
- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.

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#### - **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### **SECTION 5: Firefighting measures**

#### - 5.1 Extinguishing media

- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

- Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

# **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:
- Do not allow product to reach sewage system or any water course.
- Inform respective authorities in case of seepage into water course or sewage system.
- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Dispose of the material collected according to regulations.

#### - 6.4 Reference to other sections

See Section 7 for information on safe handling.

- See Section 8 for information on personal protection equipment.
- See Section 10 for information on "stability and reactivity".
- See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

-7.1 Precautions for safe handling No special precautions are necessary if used correctly.

- Information about fire - and explosion protection: No special measures required.

#### - 7.2 Conditions for safe storage, including any incompatibilities

- Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep receptacle tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

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

- Additional information about design of technical facilities: No further data; see item 7.

#### - 8.1 Control parameters

#### - Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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- DNELs

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# 7631-86-9 silicon dioxide, chemically prepared

Inhalative Langzeit, Systemische Effekte 4 mg/m<sup>3</sup> (all)

- Additional information: The lists valid during the making were used as basis.

#### -8.2 Exposure controls

#### - Personal protective equipment:

#### - General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Clean skin thoroughly immediately after handling the product.

#### - Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

#### - Protection of hands:

Protective gloves (EN 374)

Check protective gloves prior to each use for their proper condition.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### - Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### - Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Safety glasses

- Body protection: Use protective suit.

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

<ul><li>- 9.1 Information on basic physical a</li><li>- General Information</li></ul>		
- Appearance:		
Form:	Pasty	
Colour:	Light yellow	
- Odour:	Characteristic	
- Odour threshold:	Not determined.	
- pH-value:	Not determined.	
- Change in condition		
Melting point/Melting range:	Undetermined.	
<b>Boiling point/Boiling range:</b>	Undetermined.	
- Flash point:	>100 °C	
- Flammability (solid, gaseous):	Not applicable.	
		(Contd. on page

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		(Contd. of page
- Ignition temperature:		
Decomposition temperature:	Not determined.	
- Self-igniting:	Product is not self-igniting.	
- Danger of explosion:	Product does not present an explosion hazard.	
- Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
- Vapour pressure:	Not determined.	
- Density:	Not determined.	
- Relative density	Not determined.	
- Vapour density	Not determined.	
- Evaporation rate	Not determined.	
- Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
- Partition coefficient (n-octanol/water): Not determined.		
- Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
- 9.2 Other information	No further relevant information available.	

### **SECTION 10: Stability and reactivity**

- 10.1 Reactivity
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions
- Reacts with strong alkali.
- Reacts with strong acids.
- Reacts with strong oxidising agents.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:
- No dangerous products of decomposition if used and stored according to specifications.

# **SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects
- Acute toxicity
- LD/LC50 values relevant for classification:

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Oral LD50 11400 mg/kg (rat)

7631-86-9 silicon dioxide, chemically prepared

Oral LD50 >10 000 mg/kg (rat) (Literatur)

Dermal LD50 >5000 mg/kg (rab) (Literatur)

#### - Primary irritant effect:

- Skin corrosion/irritation Irritant to skin and mucous membranes.

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(Contd. of page 5) - Serious eye damage/irritation Causes serious eye irritation. - Respiratory or skin sensitisation Sensitisation possible through skin contact. - Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant No experimentally found toxicological data are available for this preparation. **SECTION 12: Ecological information** - 12.1 Toxicity - Aquatic toxicity: 7631-86-9 silicon dioxide, chemically prepared EC50/24 h >10 000 mg/l (DA) (OECD 202) LC50/96 h >10 000 mg/l (Danio rerio) (OECD 203) - 12.2 Persistence and degradability No further relevant information available. - 12.3 Bioaccumulative potential No further relevant information available. - 12.4 Mobility in soil No further relevant information available. - Ecotoxical effects: - Remark: Toxic for fish - Additional ecological information: - General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Danger to drinking water if even small quantities leak into the ground. Do not allow product to reach ground water, water course or undiluted sewage system. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms - 12.5 Results of PBT and vPvB assessment - PBT: Not applicable. - vPvB: Not applicable. - 12.6 Other adverse effects No further relevant information available. **SECTION 13: Disposal considerations** 

- 13.1 Waste treatment methods

- Recommendation Disposal must be made according to official regulations.

- Uncleaned packaging:

- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information		
- 14.1 UN-Number - ADR, IMDG, IATA	UN3082	
- 14.2 UN proper shipping name		
- ADR	3082 ENVIRONMENTALLY HAZARDOUS	
	SUBSTANCE, LIQUID, N.O.S. (reaction product:	
	bisphenol-A-(epichlorhydrin) epoxy resin (number	
	average molecular weight $\leq$ 700))	
- IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,	
	LIQUID, N.O.S. (reaction product: bisphenol-A-	
	(epichlorhydrin) epoxy resin (number average molecular	
	weight $\leq$ 700)), MARINE POLLUTANT	
- IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,	
	LIQUID, N.O.S. (reaction product: bisphenol-A-	
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-	(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
- 14.3 Transport hazard class(es)	
- ADR	
- Class - Label	<ul><li>9 (M6) Miscellaneous dangerous substances and articles.</li><li>9</li></ul>
- IMDG, IATA	
- Class - Label	9 Miscellaneous dangerous substances and articles. 9
- 14.4 Packing group - ADR, IMDG, IATA	III
- 14.5 Environmental hazards: - Marine pollutant:	Yes Symbol (fish and tree)
- Special marking (ADR): - Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
- 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
- Danger code (Kemler): - EMS Number:	90 F-A,S-F
- 14.7 Transport in bulk according to Anno MARPOL73/78 and the IBC Code	ex II of Not applicable.
- Transport/Additional information:	
- ADR - Limited quantities (LQ) - Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- Transport category - Tunnel restriction code	3 E
- IMDG - Limited quantities (LQ) - Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- UN "Model Regulation":	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)), 9, III

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#### - Relevant phrases

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.
- R36/38 Irritating to eyes and skin.
- R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (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 Harmonised 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)
- DNEL: Derived No-Effect Level (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- Skin Sens. 1: Sensitisation Skin, Hazard Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment Chronic Hazard, Category 2



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according to 1907/2006/EC, Article 31

Printing date 19.05.2015 Version number 1 Revision: 19.05.2015 SECTION 1: Identification of the substance/mixture and of the company/undertaking - 1.1 Product identifier - Trade name: ergo 7419 - 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. - Application of the substance / the mixture Epoxy resin adhesive - 1.3 Details of the supplier of the safety data sheet - Manufacturer/Supplier: Kisling AG Motorenstrasse 102 CH-8620 Wetzikon Telefon: +41-(0) 58-272 0 272 Telefax: +41-(0) 58-272 0 273 - Further information obtainable from: Safety Department - Department issuing MSDS: ergo@kisling.com - 1.4 Emergency telephone number: Swiss Toxicological Information Centre: +41-(0) 44-2 51 51 51 **SECTION 2: Hazards identification** - 2.1 Classification of the substance or mixture - Classification according to Regulation (EC) No 1272/2008 Skin Corr. 1A H314 Causes severe skin burns and eye damage. Eve Dam. 1 H318 Causes serious eye damage. Skin Sens. 1 H317 May cause an allergic skin reaction. Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. - Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi: Irritant R38-41: Irritating to skin. Risk of serious damage to eyes. Xi; Sensitising R43: May cause sensitisation by skin contact. N; Dangerous for the environment Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53: - Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. - Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data. - 2.2 Label elements - Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. - Hazard pictograms GHS07 GHS09 GHS05 - Signal word Danger (Contd. on page 2) - CHGEN

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Hazard-dete	ermining components of labelling:
	C18-unsatd., dimers, reaction products with polyethylenepolyamines
	propyl)-N,N-dimethylpropane-1,3-diamine
Butadien-Acr	rylonitril-Copolymer
2-piperazin-1	-ylethylamine
Hazard state	ements
H314 Causes	s severe skin burns and eye damage.
H317 May ca	ause an allergic skin reaction.
H411 Toxic t	to aquatic life with long lasting effects.
Precautional	ry statements
P260	Do not breathe mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+	P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+	P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
2.3 Other ha	izards
<b>Results of PI</b>	BT and vPvB assessment
<b>PBT:</b> Not app	plicable.

- **vPvB:** Not applicable.

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

# - **3.2 Mixtures** - **Description:** Adhesive

CAS: 68683-29-4	Butadien-Acrylonitril-Copolymer	25-<100%
	Xi R43	
	Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 68410-23-1	Fatty acids, C18-unsatd., dimers, reaction products with	25-<100%
EC number: 614-452-7	polyethylenepolyamines	
	Xi R38-41; N R51/53	
	Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315	
CAS: 10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	10-<25%
EINECS: 234-148-4	C R35; Xn R21/22; Xi R43	
	Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H312;	
	Skin Sens. 1, H317	
CAS: 68082-29-1	Amino Polyamide	5-<10%
NLP: 500-191-5	Xi R38-41; N R51/53	
	Met. Corr.1, H290; Eye Dam. 1, H318; Aquatic Chronic 2, H411;	
	Skin Irrit. 2, H315	
CAS: 140-31-8	2-piperazin-1-ylethylamine	3-<5%
EINECS: 205-411-0	C R34; Xn R21/22; Xi R43	
Index number: 612-105-00-4		
	Acute Tox. 3, H311; Skin Corr. 1B, H314; Acute Tox. 4, H302;	
	Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 112-24-3	3,6-diazaoctanethylenediamin	1-<3%
EINECS: 203-950-6	C R34; Xn R21; Xi R43	
Index number: 612-059-00-5		
	Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	

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- Additional information: For the wording of the listed risk phrases refer to section 16. **SECTION 4: First aid measures** - 4.1 Description of first aid measures - General information: Remove any clothing soiled by the product. - After inhalation: Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. - After skin contact: After contact with skin, wash immediately with plenty of soap and water. If skin irritation continues, consult a doctor. - After eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. - After swallowing: Rinse out mouth and then drink plenty of water. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. - 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available. - 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available. **SECTION 5: Firefighting measures** - 5.1 Extinguishing media - Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. - 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. - 5.3 Advice for firefighters - Protective equipment: Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. - Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

# **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.

- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 10 for information on "stability and reactivity".
- See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly.

- Information about fire - and explosion protection: No special measures required.

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- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:

DNFLs

- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep receptacle tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

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

- Additional information about design of technical facilities: No further data; see item 7.

#### - 8.1 Control parameters

#### - Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- DNELS			
112-24-3 3,6-diazaoctanethylenediamin			
Oral	Akut, Systemisch	e Effekte	20 mg/kg (all)
	Langzeit, System	ische Effekte	0,41 mg/kg bw/day (all)
Dermal	Akut, Lokale Effe	ekte	1 mg/kg (all)
	Akut, Systemisch	e Effekte	8 mg/kg bw (all)
	Langzeit, Lokale	Effekte	0,028 mg/kg bw/day (ber)
	Langzeit, System	ische Effekte	0,57 mg/kg bw/day (ber)
Inhalative	Akut, Systemisch	e Effekte	1600 mg/m <sup>3</sup> (all)
			5380 mg/m <sup>3</sup> (ber)
	Langzeit, System	ische Effekte	0,29 mg/m <sup>3</sup> (all)
			1 mg/m <sup>3</sup> (ber)
- PNECs			
112-24-3 3,6-diazaoctanethylenediamin			
PNEC Boden 19,1 mg/kg		19,1 mg/kg H	Boden (-)
PNEC Kläranlage 4,25 r		4,25 mg/l (-)	
PNEC Meerwasser 0,03		0,038 mg/l (-	-)
PNEC Meerwassersediment 19,2 mg/kg S		19,2 mg/kg S	Sediment (-)
PNEC Süßwasser 0,19 mg		0,19 mg/l (-)	

- Additional information: The lists valid during the making were used as basis.

95,9 mg/kg Sediment (-)

#### - 8.2 Exposure controls

PNEC Süßwassersediment

- Personal protective equipment:

- General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. - **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation. Combination filter ABEK-ST-P3

#### - **Protection of hands:** Protective gloves (EN 374)

Check protective gloves prior to each use for their proper condition.

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation - Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### - Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Tightly sealed goggles

- Body protection: Use protective suit.

- 9.1 Information on basic physical a	nd chemical properties	
- General Information		
- Appearance: Form:	Pasty	
Colour:	Light yellow	
- Odour:	Characteristic	
- Odour threshold:	Not determined.	
- pH-value:	Not determined.	
- Change in condition		
Melting point/Melting range:	Undetermined.	
<b>Boiling point/Boiling range:</b>	Undetermined.	
- Flash point:	Not applicable.	
- Flammability (solid, gaseous):	Not applicable.	
- Ignition temperature:		
Decomposition temperature:	Not determined.	
- Self-igniting:	Product is not self-igniting.	
- Danger of explosion:	Product does not present an explosion hazard.	
- Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
- Vapour pressure:	Not determined.	
- Density:	Not determined.	
- Relative density	Not determined.	
- Vapour density	Not determined.	
- Evaporation rate	Not determined.	
- Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
- Partition coefficient (n-octanol/wat	er): Not determined.	
- Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	

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- 9.2 Other information

No further relevant information available.

# **SECTION 10: Stability and reactivity**

#### - 10.1 Reactivity

#### - 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions Strong exothermic reaction with acids.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:

No dangerous products of decomposition if used and stored according to specifications.

# **SECTION 11: Toxicological information**

#### - 11.1 Information on toxicological effects

- Acute toxicity

### - LD/LC50 values relevant for classification:

10563-29-8 N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine

Oral LD50 1670 mg/kg (rat)

Dermal LD50 1310 mg/kg (rab)

#### 112-24-3 3,6-diazaoctanethylenediamin

Oral LD50 1716 mg/kg (rab)

Dermal LD50 1465 mg/kg (rab)

#### - Primary irritant effect:

- Skin corrosion/irritation Irritant to skin and mucous membranes.
- Serious eye damage/irritation

Strong irritant with the danger of severe eye injury.

Causes serious eye damage.

- Respiratory or skin sensitisation Sensitisation possible through skin contact.
- Other information (about experimental toxicology):
- OECD 435 (CORROSITEX): Non-corrosive substance
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

No experimentally found toxicological data are available for this preparation.

# **SECTION 12: Ecological information**

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Ecotoxical effects:
- Remark: Toxic for fish
- Additional ecological information:
- General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Danger to drinking water if even small quantities leak into the ground.

Do not allow product to reach ground water, water course or undiluted sewage system.

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Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- 12.5 Results of PBT and vPvB assessment - PBT: Not applicable.

- **vPvB:** Not applicable.

- 12.6 Other adverse effects No further relevant information available.

### **SECTION 13: Disposal considerations**

- 13.1 Waste treatment methods

- Recommendation Disposal must be made according to official regulations.

- Uncleaned packaging:

- Recommendation: Disposal must be made according to official regulations.

- 14.1 UN-Number - ADR, IMDG, IATA	UN2735
- 14.2 UN proper shipping name - ADR	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (N'-(3 aminopropyl)-N,N-dimethylpropane-1,3-diamine, Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines), ENVIRONMENTALLY HAZARDOUS
- IMDG - IATA	AMINES, LIQUID, CORROSIVE, N.O.S. (N'-(3 aminopropyl)-N,N-dimethylpropane-1,3-diamine, Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines), MARINE POLLUTANT AMINES, LIQUID, CORROSIVE, N.O.S. (N'-(3
	aminopropyl)-N,N-dimethylpropane-1,3-diamine, Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines)
- 14.3 Transport hazard class(es)	
- ADR	
- Class - Label	8 (C7) Corrosive substances. 8
- IMDG	
- Class	8 Corrosive substances.
- Label	8

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# **SECTION 15: Regulatory information**

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

- National regulations:
- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### - Relevant phrases

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.

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H315 Causes skin irritation.				
H317 May cause an allergic skin reaction.				
H318 Causes serious eye damage.				
H411 Toxic to aquatic life with long lasting effects.				
H412 Harmful to aquatic life with long lasting effects.				
R21 Harmful in contact with skin.				
R21/22 Harmful in contact with skin and if swallowed.				
R34 Causes burns.				
R35 Causes severe burns.				
R38 Irritating to skin.				
R41 Risk of serious damage to eyes.				
R43 May cause sensitisation by skin contact.				
R51/53 Toxic to aquatic organisms, may cause long-term ad				
R52/53 Harmful to aquatic organisms, may cause long-term	adverse effects in the aquatic environment.			
- Abbreviations and acronyms:				
ADR: Accord européen sur le transport des marchandises dangereuses	par Route (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 Harmonised System of Classification and Labelling of Che	micals			
EINECS: European Inventory of Existing Commercial Chemical Substance				
ELINCS: European List of Notified Chemical Substances				
CAS: Chemical Abstracts Service (division of the American Chemical So	ciety)			
DNEL: Derived No-Effect Level (REACH)				
PNEC: Predicted No-Effect Concentration (REACH)				
LC50: Lethal concentration, 50 percent				
LD50: Lethal dose, 50 percent Met. Corr.1: Corrosive to metals, Hazard Category 1				
Acute Tox. 4: Acute toxicity, Hazard Category 4				
Acute Tox. 3: Acute toxicity, Hazard Category 3				
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A				
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B				
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2				
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1				
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Haza	rd Category 2			
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Haza				
	CHGEN			