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

1.1. Product identifier

Jokisch Hyper BO; Jokisch Migma Evio DPR; Jokisch Solum Lupi DPR

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

1.3. Details of the supplier of the safety data sheet

Company name:	JOKOBA Technologies GmbH Germany
Street:	Industriestraße 5-10
Place:	D-33813 Oerlinghausen
Telephone:	+49(0)5202/9734-0
E-mail:	info@jokoba.de
Contact person:	Regulatory affairs
E-mail:	MSDS@jokoba.de
Internet:	www.jokisch-fluids.de

1.4. Emergency telephone number:

Emergency telephone number (24h) +1 872 5888271 (JRR) (en)

Further Information

Reserved for industrial and professional use.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin Corr. 1C; H314
Eye Dam. 1; H318
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

2,2-(cyclohexylimino)bisethanol

Signal word: Danger

Pictograms:



Hazard statements

H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
P304+P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.

2.3. Other hazards

Avoid release to the environment.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
102-71-6	Triethanolamin			2,5-10%
	203-049-8		01-2119486482-31	
4500-29-2	2,2-(cyclohexylimino)bisethanol			2,5 -10 %
	224-809-5		01-2119962183-38	
	Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1, STOT RE 2; H302 H314 H318 H373			
	Carbonic acid neutralized			10 - < 15 %
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H302 H315 H319			
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine			2.5 - < 5 %
	203-312-7		01-2119488970-24	
	Carc. 2, Eye Irrit. 2; H351 H319			
31075-24-8	1,2-Ethanediamin, N´,N´,N´,N´,-tetramethyl-,polymer mit 1,1´-oxybis(2-chloroethan)			0-1 %
	608-578-1			
	Acute Tox. 4, Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1; H332 H302 H400 H410			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
102-71-6	203-049-8	Triethanolamin	2,5-10%
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 8000 mg/kg		
4500-29-2	224-809-5	2,2-(cyclohexylimino)bisethanol	2,5 -10 %
	oral: LD50 = 2000 mg/kg		
		Carbonic acid neutralized	10 - < 15 %
	oral: ATE = 500 mg/kg		
105-59-9	203-312-7	2,2'-(methylimino)diethanol; N-methyldiethanolamine	2.5 - < 5 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 4680 mg/kg		
31075-24-8	608-578-1	1,2-Ethanediamin, N´,N´,N´,N´,-tetramethyl-,polymer mit 1,1´-oxybis(2-chloroethan)	0-1 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: LC50 = 2,9 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1951 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10		

Further Information

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. Medical treatment necessary. Do not get in eyes, on skin, or on clothing. Do not breathe gas/fumes/vapour/spray.
Wear personal protection equipment. Avoid contact with skin, eyes and clothes. Avoid contact with skin. Do not effect a mouth-to-mouth resuscitation.

After inhalation

Provide fresh air. Medical treatment necessary. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Remove contaminated clothing immediatley and dispose off safely. Rinse skin with water [or shower]. Call a physician immediately.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not subject to friction. Call a physician immediately. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk. Rinse mouth thoroughly with water. Call a POISON CENTER/doctor/.? if you feel unwell.

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

Causes burns. Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

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

Treat symptomatically. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Co-ordinate fire-fighting measures to the fire surroundings. Foam.
Dry extinguishing powder. Carbon dioxide (CO2). Water fog. Water.

Unsuitable extinguishing media

Strong water jet

5.2. Special hazards arising from the substance or mixture

Non-flammable. Contaminated fire-fighting water must be collected separately.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. In case of fire: Wear self-contained breathing apparatus. Full protective suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Provide adequate ventilation. Wear personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Keep away from unprotected people. Keep upwind.

For non-emergency personnel

Take off immediately all contaminated clothing and wash it before reuse.

For emergency responders

The danger areas must be delimited and identified using relevant warning and safety signs. Move victim out of danger zone.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Wash with plenty of water.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation. When using do not eat, drink or smoke. Wear personal protection equipment.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary . When using do not eat or drink. Wear suitable protective clothing.

Further information on handling

When using do not eat, drink or smoke.
High slip hazard because of leaking or spilled product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Maximum period of storage (time): 1 year

7.3. Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
102-71-6	Triethanolamine	-	5		TWA (8 h)	

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
102-71-6	Triethanolamin			
Worker DNEL, long-term		inhalation	local	1 mg/m³
Worker DNEL, long-term		dermal	systemic	7,5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	0,4 mg/m³
Consumer DNEL, long-term		dermal	local	2,66 mg/person/day
Consumer DNEL, long-term		oral	systemic	3,3 mg/kg bw/day
4500-29-2	2,2-(cyclohexylimino)bisethanol			
Worker DNEL, long-term		inhalation	systemic	2,2 mg/m³
Worker DNEL, long-term		inhalation	local	1,0 mg/m³
Worker DNEL, long-term		dermal	systemic	1,25 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,893 mg/kg bw/day
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine			
Worker DNEL, long-term		inhalation	systemic	7,9 mg/m³
Worker DNEL, long-term		dermal	systemic	5,6 mg/kg bw/day
Worker DNEL, long-term		dermal	local	0,05 mg/cm²
Consumer DNEL, long-term		inhalation	systemic	0,4 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,67 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	0,03 mg/cm²
Consumer DNEL, long-term		oral	systemic	0,13 mg/kg bw/day

PNEC values

CAS No	Substance
Environmental compartment	Value
102-71-6	Triethanolamin
Freshwater	0,32 mg/l
Marine water	0,32 mg/l
Freshwater sediment	1,7 mg/kg
Marine sediment	0,17 mg/kg
Microorganisms in sewage treatment plants (STP)	10 mg/l
Soil	0,151 mg/kg
4500-29-2	2,2-(cyclohexylimino)bisethanol
Freshwater	0,81 mg/l
Marine water	0,081 mg/l
Freshwater sediment	3,8 mg/kg
Marine sediment	0,38 mg/kg
Microorganisms in sewage treatment plants (STP)	50 mg/l
Soil	0,28 mg/kg
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine
Freshwater	0,1 mg/l
Marine water	0,004 mg/l
Freshwater sediment	0,78 mg/kg
Marine sediment	0,035 mg/kg
Microorganisms in sewage treatment plants (STP)	10 mg/l
Soil	0,097 mg/kg

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles. Tightly sealed safety glasses. Eye protection: EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Tested protective gloves are to be worn: EN ISO 374

Skin protection

Wear suitable protective clothing. Wear personal protection equipment.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. IF exposed: Use appropriate respiratory protection.

Thermal hazards

Remove all sources of ignition.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	clear
Odour:	characteristic

		Test method
Boiling point or initial boiling point and boiling range:	>100 °C	
Flammability:	not applicable not applicable	
Flash point:	>100 °C	
Auto-ignition temperature:	not determined	
Decomposition temperature:	not determined	
pH-Value (at 20 °C):	9,8	DIN 51369
Viscosity / kinematic: (at 40 °C)	105 mm²/s	ASTM D 7042
Water solubility:	easily soluble	
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:	not determined	
Vapour pressure:	not determined	
Density (at 15,5 °C):	1,07 g/cm³	EN ISO 12185
Relative vapour density:	not determined	

9.2. Other information

Information with regard to physical hazard classes

Self-ignition temperature	
Solid:	No information available.
Gas:	No information available.
Oxidizing properties	
Not oxidising.	

Other safety characteristics

Evaporation rate:	not determined
Solid content:	not determined
Pour point:	not determined
Viscosity / dynamic:	not determined

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.4. Conditions to avoid

frost.

10.5. Incompatible materials

Oxidizing agents, strong.
Strong acid
strong alkalis

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalativ Dampf) > 20 mg/l; ATE (inhalativ Staub/Nebel) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
102-71-6	Triethanolamin				
	oral	LD50 8000 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rabbit		
4500-29-2	2,2-(cyclohexylimino)bisethanol				
	oral	LD50 2000 mg/kg	Rat	ECHA	
	Carbonic acid neutralized				
	oral	ATE 500 mg/kg			
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine				
	oral	LD50 4680 mg/kg	Rat		OECD 401
	dermal	LD50 > 2000 mg/kg	Rabit		
31075-24-8	1,2-Ethanediamin, N´,N´,N´,N´,-tetramethyl-,polymer mit 1,1´-oxybis(2-chloroethan)				
	oral	LD50 1951 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rabbit		
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) dust/mist	LC50 2,9 mg/l	Rat		

Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage.
Serious eye damage/eye irritation: Causes serious eye damage.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Additional information on tests

No risks worthy of mention. Practical experience.
The statement is derived from the properties of the single components.
The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

11.2. Information on other hazards

Endocrine disrupting properties

Based on available data, the classification criteria are not met.
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Further information

Causes burns. Risk of serious damage to eyes.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
102-71-6	Triethanolamin						
	Acute fish toxicity	LC50 mg/l	11800	96 h	Pimephales Promelas		
	Acute crustacea toxicity	EC50 mg/l	2038	48 h	Großer Wasserfloh	24h	
4500-29-2	2,2-(cyclohexylimino)bisethanol						
	Acute fish toxicity	LC50 mg/l	>100	96 h	Brachydaniorerio		
	Acute algae toxicity	ErC50 mg/l	12,5	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50	163 mg/l	48 h	Daphnia magna		
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine						
	Acute fish toxicity	LC50 mg/l	1466	96 h	Leuciscus idus		DIN38412
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Pseudokirchneriella sub.		DIN 38412
	Acute crustacea toxicity	EC50	233 mg/l	48 h	Daphnia magna		EU C.2
	Algae toxicity	NOEC mg/l	6,25	3 d	Desmodesmus subspicatus		DIN 38412
31075-24-8	1,2-Ethanediamin, N´,N´,N´,N´,-tetramethyl-,polymer mit 1,1´-oxybis(2-chloroethan)						
	Acute fish toxicity	LC50 mg/l	0,047	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute crustacea toxicity	EC50 mg/l	0,37	48 h	Daphnia magna		
	Fish toxicity	NOEC mg/l	0,037	4 d	Oncorhynchus mykiss (Rainbow trout)		
	Algae toxicity	NOEC mg/l	0,0019	5 d	Selenastrum capricornutum		
	Crustacea toxicity	NOEC mg/l	0,08	2 d	Daphnia magna		

12.2. Persistence and degradability

No information available.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine			
	OECD guideline 301 A	96%	18	
	readily biodegradable			
	OECD 302B	95%	14	
	inherently biodegradable			
	OECD 306	15%	63	
	not readily biodegradable			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
102-71-6	Triethanolamin	-2,53
4500-29-2	2,2-(cyclohexylimino)bisethanol	1,57
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine	-1,16

BCF

CAS No	Chemical name	BCF	Species	Source
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine	0,7-3,2		

12.4. Mobility in soil

Miscible with: Water.

12.5. Results of PBT and vPvB assessment

Based on available data, the classification criteria are not met.
none according to Regulation (EC) No. 1907/2006 (REACH)

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. This material and its container must be disposed of as hazardous waste.

List of Wastes Code - residues/unused products

120107 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; mineral-based machining oils free of halogens (except emulsions and solutions); hazardous waste

List of Wastes Code - used product

120109 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; machining emulsions and solutions free of halogens; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 2735

14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (2,2-(cyclohexylimino)bisethanol)

14.3. Transport hazard class(es): 8

14.4. Packing group: III

Hazard label: 8



Classification code:	C7
Special Provisions:	274
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

Inland waterways transport (ADN)

14.1. UN number or ID number:	UN 2735
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (2,2-(cyclohexylimino)bisethanol)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8



Classification code:	C7
Special Provisions:	274
Limited quantity:	5 L
Excepted quantity:	E1

Marine transport (IMDG)

14.1. UN number or ID number:	UN 2735
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (2,2-(cyclohexylimino)bisethanol)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8



Special Provisions:	223, 274
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN 2735
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (2,2-(cyclohexylimino)bisethanol)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8



Special Provisions:	A3 A803
Limited quantity Passenger:	1 L
Passenger LQ:	Y841
Excepted quantity:	E1
IATA-packing instructions - Passenger:	852
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	856

IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: strongly corrosive.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

Directive 2004/42/EC on VOC in paints and varnishes:	20 % (214 g/l)
Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Water hazard class (D):	2 - obviously hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
1,2-Ethanediamin, N´,N´,N´,N´,-tetramethyl-,polymer mit 1,1´-oxybis(2-chloroethan)

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,12.

AICS (Australien), DSL (Kanada), IECSC (China), REACH (Europäische Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (Neuseeland), PICCS (Philippinen), TSCA (USA)

Abbreviations and acronyms

Acute Tox. 4: Acute toxicity, hazard category 4
Skin Corr. 1C: Skin corrosion, sub-category 1C
Skin Irrit. 2: Skin irritation, hazard category 2
Eye Dam. 1: Serious eye damage, hazard category 1
Eye Irrit. 2: Eye irritation, hazard category 2
Carc. 2: Carcinogenicity, hazard category 2
STOT RE 2: Specific target organ toxicity - repeated exposure, hazard category 2
Aquatic Acute 1: Hazardous to the aquatic environment, hazard category: Acute 1
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard category: Chronic 1
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard category: Chronic 3
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 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
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)