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

1.1. Product identifier

Hardener L

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

Use of the substance/mixture

epoxy resin hardener

1.3. Details of the supplier of the safety data sheet

Company name: R&G Faserverbundwerkstoffe GmbH

Street: Im Meißel 7 - 13
Place: D-71111 Waldenbuch

Post-office box: 1145

D-71107 Waldenbuch

Telephone: +49-7157-530460 Telefax: +49-7157-530470

e-mail: info@r-g.de
Contact person: Michael Groß
e-mail: info@r-g.de
Internet: www.r-g.de
Responsible Department: Management

1.4. Emergency telephone number: Vergiftungs-Informations-Zentrale Freiburg

Tel: +49 (0)761 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1B Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1

Reproductive toxicity: Repr. 2

Specific target organ toxicity - repeated exposure: STOT RE 2 Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements: Harmful if swallowed.

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

3-aminomethyl-3,5,5-trimethyl-cyclohexylamine

benzyl alcohol

 $Cyclohexane methan a mine, 5-amino-1, 3, 3-trimethyl-, reaction\ products\ with\ bisphenol\ A\ diglycidyl\ ether\ homopolymer$

2-piperazin-1-ylethylamine

Phenol, styrenated

salicylic acid

3-aminopropyltriethoxysilane

Signal word: Danger

Pictograms:





Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

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H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P311 Call a POISON CENTER/doctor.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or

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.

2.3. Other hazards

Results of PBT and vPvB assessment: not applicable

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
2855-13-2	3-aminomethyl-3,5,5-trimethy		25 - 50 %	
	220-666-8	612-067-00-9	01-2119514687-32	
	Acute Tox. 4, Acute Tox. 4, S H318 H317 H412	1, Aquatic Chronic 3; H312 H302 H314		
100-51-6	benzyl alcohol			25 - 50 %
	202-859-9	603-057-00-5	01-2119492630-38	
	Acute Tox. 4, Acute Tox. 4, E			
140-31-8	2-piperazin-1-ylethylamine	2,5 - 9 %		
	205-411-0	612-105-00-4		
	Acute Tox. 3, Acute Tox. 4, S			
919-30-2	3-aminopropyltriethoxysilane	<= 2,5 %		
	213-048-4	612-108-00-0	01-2119480479-24	
	Acute Tox. 4, Skin Corr. 1B, E			
61788-44-1	Phenol, styrenated	<= 2,5 %		
	262-975-0		01-2119980970-27	
	Skin Irrit. 2, Skin Sens. 1, Aqu			
69-72-7	salicylic acid	<= 2,5 %		
	200-712-3	607-732-00-5	01-2119486984-17	
	Repr. 2, Acute Tox. 4, Eye Da			

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.	Specific Conc. Limits, M-factors and ATE			
2855-13-2	220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine	25 - 50 %		
	dermal: LD50	= 1840 mg/kg; oral: LD50 = 1030 mg/kg			
100-51-6	202-859-9	benzyl alcohol	25 - 50 %		
	inhalation: AT	E = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = 1620 mg/kg			
140-31-8	205-411-0	2-piperazin-1-ylethylamine	2,5 - 9 %		
	dermal: LD50	= 866 mg/kg; oral: LD50 = > 1470 mg/kg			
919-30-2	213-048-4	3-aminopropyltriethoxysilane	<= 2,5 %		
	dermal: LD50	= 4000 mg/kg; oral: LD50 = 1780 mg/kg			
61788-44-1	262-975-0	Phenol, styrenated	<= 2,5 %		
	dermal: LD50	= > 2000 mg/kg; oral: LD50 = > 2000 mg/kg			
69-72-7	200-712-3	salicylic acid	<= 2,5 %		
	dermal: LD50	= > 2000 mg/kg; oral: LD50 = 891 mg/kg			

SECTION 4: First aid measures

4.1. Description of first aid measures

according to UK REACH Regulation

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General information

Remove contaminated, saturated clothing immediately.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

Wash with plenty of water/soap. If skin irritation occurs: Get medical advice/attention.

After contact with eves

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.

After ingestion

Rinse mouth immediately and drink plenty of water. Provide fresh air. Immediately call a doctor.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Water spray. In case of major fire and large quantities: Water spray jet, alcohol resistant foam.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Gases/vapours, toxic, Gases/vapours, corrosive.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Provide adequate ventilation. Evacuate area.

6.2. Environmental precautions

Do not discharge into drains, surface or groundwater.

Do not allow to enter subsoil/soil/subsoil.

Collect and dispose of contaminated water.

6.3. Methods and material for containment and cleaning up

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. Provide adequate ventilation.

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

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe gas/fumes/vapour/spray. Use personal protection equipment.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and dry. Keep/Store only in original container. Provide for retaining containers, e.g. floor pan without outflow.

Hints on joint storage

Do not store together with:

Oxidising agent

Food and feedingstuffs

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Further information on storage conditions

storage temperature 15 - 20 °C. Keep receptacles tightly sealed.

Keep only in the original container.

Provide for retaining containers, e.g. floor pan without outflow.

7.3. Specific end use(s)

epoxy resin hardener

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine					
Worker DNEL,		inhalation		20,1 mg/m³		
100-51-6	benzyl alcohol					
Worker DNEL, long-term		dermal		9,5 mg/kg bw/day		
Worker DNEL, long-term		inhalation		22 mg/m³		
140-31-8	2-piperazin-1-ylethylamine					
Worker DNEL, acute		dermal		20 mg/kg bw/day		
Worker DNEL, acute		inhalation		21,4 mg/m³		
61788-44-1	Phenol, styrenated					
Worker DNEL,		dermal		2,1 mg/kg bw/day		
Worker DNEL,		inhalation		7,4 mg/m³		

PNEC values

PINEC Values				
CAS No	Substance			
Environmental	Environmental compartment			
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine			
Freshwater		0,06 mg/l		
Marine water		0,006 mg/l		
100-51-6	benzyl alcohol			
Freshwater		1 mg/l		
Marine water		0,1 mg/l		
140-31-8	2-piperazin-1-ylethylamine			
Freshwater		0,058 mg/l		
Marine water		0,0058 mg/l		
61788-44-1	Phenol, styrenated			
Freshwater		0,03 mg/l		
Marine water		0,003 mg/l		
69-72-7	salicylic acid			
Freshwater		0,2 mg/l		
Marine water		0,02 mg/l		

8.2. Exposure controls







Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. When using do not eat, drink or smoke. When using do not eat or drink. Avoid contact with eyes and skin. Do not breathe gas/fumes/vapour/spray. Keep away from food, drink and animal feedingstuffs.

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Eye/face protection

Tightly sealed safety glasses.

Hand protection

Wear suitable gloves.

Suitable material:

NBR (Nitrile rubber), FKM (fluoro rubber)
Thickness of the glove material >= 0,5 mm

Unsuitable material: Thick fabric., Leather articles

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.

Protect skin by using skin protective cream.

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.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Combination filtering device A-P2

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: light yellow
Odour: like: Amines
Odour threshold: not determined

Test method

pH-Value: not applicable

Changes in the physical state

Melting point/freezing point:

Boiling point or initial boiling point and boiling

> 200 °C

range:

Flash point: > 100 °C

Flammability

Solid: not applicable
Gas: not applicable

Explosive properties

not explosive.

Lower explosion limits: not determined Upper explosion limits: not determined Auto-ignition temperature: not determined

Self-ignition temperature

Solid: not applicable
Gas: not applicable
Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Vapour pressure: not determined

Density (at 23 °C): 0,998 g/cm³ ISO 2811-2

Water solubility: Immiscible

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

115 mPa·s ISO 3219

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Viscosity / dynamic:

(at 25 °C)

Viscosity / kinematic: not determined Relative vapour density: not determined Evaporation rate: not determined

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

In case of fire may be liberated: Gases/vapours, toxic, Gases/vapours, corrosive.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful if swallowed.

ATEmix calculated

ATE (oral) 1143,9 mg/kg; ATE (inhalation aerosol) 3,846 mg/l

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine						
	oral	LD50 mg/kg	1030	Rat	Manufacturer		
	dermal	LD50 mg/kg	1840	Rabbit	Manufacturer		
100-51-6	benzyl alcohol						
	oral	LD50 mg/kg	1620	Rat	Manufacturer		
	inhalation vapour	ATE	11 mg/l				
	inhalation aerosol	ATE	1,5 mg/l				
140-31-8	2-piperazin-1-ylethylamine						
	oral	LD50 mg/kg	> 1470	Rat	Manufacturer		
	dermal	LD50	866 mg/kg	Rabbit	Manufacturer		
919-30-2	3-aminopropyltriethoxysilane						
	oral	LD50 mg/kg	1780	Rat	Manufacturer		
	dermal	LD50 mg/kg	4000	Rabbit	Manufacturer		
61788-44-1	Phenol, styrenated						
	oral	LD50 mg/kg	> 2000	Rat	Manufacturer		
	dermal	LD50 mg/kg	> 2000	Rabbit	Manufacturer		
69-72-7	salicylic acid						
	oral	LD50	891 mg/kg	Rat	Manufacturer		
	dermal	LD50 mg/kg	> 2000	Rat	Manufacturer		

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Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; 2-piperazin-1-ylethylamine;

3-aminopropyltriethoxysilane; Phenol, styrenated)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility or the unborn child. (salicylic acid)

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

Carcinogenicity: 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

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine							
	Acute fish toxicity	LC50	110 mg/l	96 h	Leuciscus idus (golden orfe)	Manufacturer	EG 88/449	
	Acute algae toxicity	ErC50	> 50 mg/l	72 h	Scenedesmus subspicatus	Manufacturer	EG 88/302	
	Acute crustacea toxicity	EC50	23 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer	OECD 202	
100-51-6	benzyl alcohol							
	Acute fish toxicity	LC50	460 mg/l	96 h	Pimephales promelas (fathead minnow)	Manufacturer		
	Acute algae toxicity	ErC50	640 mg/l	96 h	Scenedesmus subspicatus	Manufacturer		
	Acute bacteria toxicity	(400 mg/	l)	0,5 h	Pseudomonas putida	Manufacturer		
140-31-8	2-piperazin-1-ylethylamine							
	Acute crustacea toxicity	EC50	58 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer		
61788-44-1	Phenol, styrenated							
	Acute algae toxicity	ErC50	3,14 mg/l	72 h	Scenedesmus subspicatus	Manufacturer		
69-72-7	salicylic acid							
	Acute fish toxicity	LC50	1370 mg/l	96 h	Pimephales promelas (fathead minnow)	Manufacturer		
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Scenedesmus subspicatus	Manufacturer		
	Acute crustacea toxicity	EC50	870 mg/l	48 h	Daphnia magna	Manufacturer		

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.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

12.6. Other adverse effects

No further relevant information available.

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Further information

Do not let the product enter the groundwater, open water, or the sewerage system. Undiluted or nonneutralised product may not enter waste water channel or main outfall. Harmful to aquatic life.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

For disposal, comply with local regulations. Dispose of liquid component in a suitable incinerator. Product can be disposed of with household waste after curing.

List of Wastes Code - residues/unused products

080299 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of other coatings (including ceramic materials): wastes not otherwise specified

List of Wastes Code - used product

080299 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS

(PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes

from MFSU of other coatings (including ceramic materials); wastes not otherwise specified

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 2735

14.2. UN proper shipping name: AMINE, FLÜSSIG, ÄTZEND, N.A.G.

(3-aminomethyl-3,5,5-trimethyl-cyclohexylamine, benzyl alcohol)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



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

Other applicable information (land transport)

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

Inland waterways transport (ADN)

14.1. UN number: UN 2735

14.2. UN proper shipping name: AMINE, FLÜSSIG, ÄTZEND, N.A.G.

(3-aminomethyl-3,5,5-trimethyl-cyclohexylamine, benzyl alcohol)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Classification code: C7
Limited quantity: 5 L
Excepted quantity: E1

Other applicable information (inland waterways transport)

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

Marine transport (IMDG)

14.1. UN number: UN 2735

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14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.

(3-aminomethyl-3,5,5-trimethyl-cyclohexylamine, benzyl alcohol)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Limited quantity: 5 L
Excepted quantity: E1
EmS: F-A, S-B
Segregation group: 18 - alkalis

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 2735

14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.

(3-aminomethyl-3,5,5-trimethyl-cyclohexylamine, benzyl alcohol)

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8



Limited quantity Passenger: 5 L
Excepted quantity: E1

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Corrosive

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

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

2004/42/EC (VOC): 26,25 %

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):

Additional information

German Chemicals Prohibition Ordinance (ChemVerbotsV)

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work

protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level

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PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LC50: Lethal concentration, 50% LD50: Lethal dose, 50% LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules MFAG: Medical First Aid Guide

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Repr. 2; H361	
STOT RE 2; H373	
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	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 hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)