

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

- **1.1 Product identifier**
- **Creation date version 1** 14.01.2015
- **Trade name** NEUKADUR Härter VG L
- **Article number:** E1054
- **Utilization of the substance of the formulation:** Hardener for epoxy resin
- **UFI:** E7XK-GFYF-M10D-QGTT
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application for the substance / the preparation** hardener for epoxy resin
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Suter Kunststoffe AG  
Aefligenstrasse 3  
3312 Fraubrunnen  
Tel. +41 (0)31 763 60 60  
Fax. +41 (0)31 763 60 61  
e-mail: info@swiss-composite.ch
- **Further information obtainable from:** Sales Team
- **1.4 Emergency telephone number:**  
Tox Info Suisse phone : 145  
International: +41 (0)44 251 51 51

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

STOT RE 2      H373 May cause damage to the liver through prolonged or repeated exposure.



GHS05 corrosion

Skin Corr. 1A      H314 Causes severe skin burns and eye damage.  
Eye Dam. 1      H318 Causes serious eye damage.



GHS09 environment

Aquatic Chronic 2      H411 Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4      H302 Harmful if swallowed.  
Skin Sens. 1      H317 May cause an allergic skin reaction.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.

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## Trade name NEUKADUR Härter VG L

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## · Hazard pictograms



GHS05 GHS07 GHS08 GHS09

## · Signal word Danger

## · Hazard-determining components of labelling:

4,4'-methylenebis(cyclohexylamine)  
Polyethylenpolyamin, Pentaethylenhexaminfraktion

## · Hazard statements

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H373 May cause damage to the liver through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

## · Precautionary statements

P260 Do not breathe dusts or mists.  
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.  
P310 Immediately call a POISON CENTER/doctor.  
P321 Specific treatment (see on this label).  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## · 2.3 Other hazards

## · Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

## · 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

## · Dangerous components:

CAS: 1761-71-3 EINECS: 217-168-8	4,4'-methylenebis(cyclohexylamine) STOT RE 2, H373; Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1, H317	75-100%
EC number: 701-266-7	Polyethylenpolyamin, Pentaethylenhexaminfraktion Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317, EUH071	5%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

## · 4.1 Description of first aid measures

## · General information:

Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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- Personal protection for the First Aider.*
- **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:**  
Immediately wash with water and soap and rinse thoroughly.  
*Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.*
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.  
*Protect unharmed eye.*  
*Call a doctor immediately.*
- **After swallowing:**  
*Do not induce vomiting; call for medical help immediately.*  
*If swallowed, rinse mouth with water (only if the person is conscious).*  
*A person vomiting while laying on their back should be turned onto their side.*  
*Call a doctor immediately.*
- **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:**  
*CO<sub>2</sub>, 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**  
*During heating or in case of fire poisonous gases are produced.*  
*Nitrogen oxides (NO<sub>x</sub>)*  
*Carbon monoxide (CO)*  
*carbon dioxide*  
*Corrosive vapors / gases*
- **5.3 Advice for firefighters**
- **Protective equipment:** *Wear self-contained respiratory protective device.*
- **Additional information**  
*Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.*  
*Cool endangered receptacles with water spray.*  
*If possible without risk, remove containers from the danger area.*

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
*Wear protective equipment. Keep unprotected persons away.*  
*Ensure adequate ventilation*  
*Use respiratory protective device against the effects of fumes/dust/aerosol.*  
*Avoid contact with eyes and skin.*  
*Do not breathe vapor.*
- **6.2 Environmental precautions:**  
*Do not allow to enter sewers/ surface or ground water.*  
*Inform respective authorities in case of seepage into water course or sewage system.*  
*Prevent from spreading (e.g. by damming-in or oil barriers).*
- **6.3 Methods and material for containment and cleaning up:**  
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*  
*Dispose contaminated material as waste according to section 13.*  
*Ensure adequate ventilation.*
- **6.4 Reference to other sections**  
*See Section 7 for information on safe handling.*

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See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Use only in well ventilated areas.  
Open and handle receptacle with care.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Keep container tightly closed and dry and storage in a good ventilated room.

Storage temperature: 20 - 25 °C.

Prevent any seepage into the ground.

Unsuitable material for container:

Copper and copper alloys

**Information about storage in one common storage facility:**

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.

Store away from foodstuffs.

**Further information about storage conditions:**

Keep container tightly sealed.

Store receptacle in a well ventilated area.

Protect from heat and direct sunlight.

**Storage class: 8 A****7.3 Denomination of Origin Made in Germany****Processing information Homogenize content before use****General remark For processing instructions see data sheet****SECTION 8: Exposure controls/personal protection****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****1761-71-3 4,4'-methylenebis(cyclohexylamine)**

Oral	DNEL Long-term - systemic effects	0.06 mg/kg bw/day (General population)
Dermal	DNEL Long-term - systemic effects	0.06 mg/kg bw/day (General population)
		0.1 mg/kg bw/day (workers)
Inhalative	DNEL Long-term - systemic effects	0.21 mg/m <sup>3</sup> (General population)
		1 mg/m <sup>3</sup> (workers)

**Polyethylenpolyamin, Pentaethylenhexaminfraktion**

Oral	DNEL Long-term - systemic effects	0.21 mg/kg bw/day (General population)
Inhalative	DNEL systemic effects - long term exposure	0.14 mg/m <sup>3</sup> (General population)
		0.82 mg/m <sup>3</sup> (workers)

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· PNECs	
<b>1761-71-3 4,4'-methylenebis(cyclohexylamine)</b>	
PNEC STP	3.2 mg/L (sewage plant)
PNEC sediment	137 mg/kg (freshwater- sediment) 13.7 mg/kg (seawater - sediment)
PNEC soil	27.2 mg/kg (soil ( Boden))
PNEC	0.08 mg/l (freshwater) 0.008 mg/l (marine water) 0.08 mg/l (intermittent releases)
<b>Polyethylenpolyamin, Pentaethylenhexaminfraktion</b>	
PNEC STP	4.2 mg/L (sewage plant)
PNEC sediment	1.59 mg/kg (freshwater- sediment) 0.159 mg/kg (seawater - sediment)
PNEC soil	3.4 mg/kg (soil ( Boden))
PNEC	0.005 mg/l (freshwater) 0.0005 mg/l (marine water)

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

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Do not inhale gases / fumes / aerosols.

Do not eat, drink, smoke or sniff while working.

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 when aerosol or mist is formed.

Filter P2

Filter P3

· **Hand protection**

Preventive skin protection (3-point program) required



Protective gloves

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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## · Eye/face protection



Tightly sealed goggles

Face protection

## · Body protection: Protective work clothing

**SECTION 9: Physical and chemical properties**

## · 9.1 Information on basic physical and chemical properties

## · General Information

· Colour:	Colourless
· Odour:	Pungent
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	230 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	110 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	150 mPas
· Solubility	
· water:	Insoluble.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C:	1 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.

## · 9.2 Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· Organic solvents:	0.0 %
· VOC (EC)	0.0 g/l
· Change in condition	
· Evaporation rate	Not determined.

## · Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void

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· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
Strong exothermic reaction with acids.  
Violent reaction with strong oxidizing agents.
- **10.4 Conditions to avoid**  
Moisture. Heat, open flames and other ignition sources. With contaminated pipes and tanks or corroded or rusty containers may lead to increased formation of hydrogen. Detail in section 7.
- **10.5 Incompatible materials:**  
Strong oxidizing agents  
Strong acids.  
reducing agent
- **10.6 Hazardous decomposition products:** if handled accordingly no products of decomposition.

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**  
Harmful if swallowed.

· **LD/LC50 values relevant for classification:**

1761-71-3 4,4'-methylenebis(cyclohexylamine)

Oral LD50 380 mg/kg (rat)

Dermal LD50 2,110 mg/kg (rabbit) (OECD 402 Acute Dermal Toxicity)

**Polyethylenpolyamin, Pentaethylenhexaminfraktion**

Oral LD50 1,600 mg/kg (rat)

Dermal LD50 1,465.4 mg/kg (rat) (OECD 402 Acute Dermal Toxicity)

- **Skin corrosion/irritation**  
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **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**  
May cause damage to the liver through prolonged or repeated exposure.

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- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

## SECTION 12: Ecological information

### · 12.1 Toxicity

#### · Aquatic toxicity:

##### 1761-71-3 4,4'-methylenebis(cyclohexylamine)

LC50 (96 h) >100 mg/l (*Leuciscus*)

EC50 (48 h) 6.84 mg/l (*Daphnia Magna*) (OECD 202 *Daphnia* sp. Acute Immobilisation Test)

EC50 (72 h) 141.2 mg/l (*Desmodesmus subspicatus*)

NOEC / 21d 4 mg/l (*Daphnia Magna*)

##### Polyethylenpolyamin, Pentaethylenhexaminfraktion

LC50 (96 h) 180 mg/l (*Guppy (Poecilia reticulata)*)

EC50 (48 h) 17.5 mg/l (*Daphnia Magna*)

EC50 (72 h) 0.7 mg/l (*Pseudokirchnerella Subcapitata*) (OECD 201 *Alga*, Growth Inhibition Test)

NOEC/72h 0.25 mg/l (*Pseudokirchnerella Subcapitata*) (OECD 201 *Alga*, Growth Inhibition Test)

NOEC / 21d 0.8 mg/l (*Daphnia Magna*) (OECD 202 *Daphnia* sp. Acute Immobilisation Test)

- **12.2 Persistence and degradability** No further relevant information available.

- **Other information:** Elimination by adsorption onto activated sludge

- **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 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse effects**

- **Remark:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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

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

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

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

No disposal via the sewage

- **Waste disposal key:**

The waste code according to the Waste Catalogue (AVV) depends on the waste producer and can therefore be different for a product. The waste code is to identify them separately from each waste producer.

- **European waste catalogue**

The allocation of waste identity numbers after the EAV must be carried out industries and process.

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

**SECTION 14: Transport information**

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA**

UN2735

- **14.2 UN proper shipping name**
- **ADR**

2735 AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-methylenebis(cyclohexylamine)), ENVIRONMENTALLY HAZARDOUS

- **IMDG, IATA**

AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-methylenebis(cyclohexylamine))

- **14.3 Transport hazard class(es)**

- **ADR**



- **Class**
- **Label**

8 (C7) Corrosive substances.  
8

- **IMDG, IATA**



- **Class**
- **Label**

8 Corrosive substances.  
8

- **14.4 Packing group**

- **ADR, IMDG, IATA**

II

- **14.5 Environmental hazards:**

Product contains environmentally hazardous substances: Polyethylenpolyamin, Pentaethylenhexaminfraktion

- **Special marking (ADR):**

Symbol (fish and tree)

- **14.6 Special precautions for user**

Warning: Corrosive substances.

- **Hazard identification number (Kemler code):**

80

- **EMS Number:**

F-A,S-B

- **Segregation groups**

(SGG18) Alkalis

- **Stowage Category**

A

- **Segregation Code**

SG35 Stow "separated from" SGG1-acids

- **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

- **Transport/Additional information:**

- **ADR**

- **Limited quantities (LQ)**

1L

- **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

- **Transport category**

2

- **Tunnel restriction code**

E

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<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-METHYLENEBIS(CYCLOHEXYLAMINE)), 8, II, ENVIRONMENTALLY HAZARDOUS

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05 GHS07 GHS08 GHS09

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
4,4'-methylenebis(cyclohexylamine)  
Polyethylenpolyamin, Pentaethylenhexaminfraktion
- **Hazard statements**  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H373 May cause damage to the liver through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**  
P260 Do not breathe dusts or mists.  
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.  
P310 Immediately call a POISON CENTER/doctor.  
P321 Specific treatment (see on this label).  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** E2 Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

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· **REGULATION (EU) 2019/1148**· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations:**· **Information about limitation of use:** Employment restrictions concerning juveniles must be observed.· **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**

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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.

EUH071 Corrosive to the respiratory tract.

· **Recommended restriction of use**

The information in this safety data sheet corresponds to the best of our knowledge at the time of the revision. The information should give you clues for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The details are not transferable to other products. Insofar as the product mentioned in this safety data sheet is mixed with other materials, mixed or processed, or subjected to processing, the information in this safety data sheet, unless expressly stated otherwise, can not be transferred to the new material produced in this way.

UFI code is valid in:

Germany

Romania

France

Czech Republic

Austria

· **Department issuing SDS:** environment protection department· **Contact:** Herr Ottensmann Tel. +49 (0)2056-25863-7· **Version number of previous version:** 16· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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)

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*VOC: Volatile Organic Compounds (USA, EU)**DNEL: Derived No-Effect Level (REACH)**PNEC: Predicted No-Effect Concentration (REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Acute Tox. 4: Acute toxicity – Category 4**Skin Corr. 1A: Skin corrosion/irritation – Category 1A**Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Skin Sens. 1: Skin sensitisation – Category 1**STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1**Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*

IE