

# Safety Data Sheet

in accordance with HSNO Printing date: 11.06.2020

Version no. 1

Revision date: 11.06.2020

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# 1 Identification of the substance or mixture and of the supplier

· Product identifier

## Trade name: EN 6850 EPOXY HARDENER

• Article number: 1022

### · Relevant identified uses of the substance or mixture and uses advised against

- Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- Product category PC9a Coatings and paints, thinners, paint removers
- Process category PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
- · Environmental release category ERC2 Formulation into mixture
- Article category AC1 Vehicles
- · Application of the substance / the mixture
- Epoxy curing agent Surface protection

## · Details of the supplier of the safety data sheet

## • Manufacturer/Supplier:

EN Chemicals S.A. 57 009 Kalochori Thessalonikil, GREECE T: +30 2310 755 428 F: +30 2310 755 428 info@enchemicals.com www.enchemicals.com

#### · Further information obtainable from:

Wyatt Machine Tools (Rupes) NZ Limited Address: 388 Church Street, Penrose, Auckland Ph (09) 525 1000; Fax (09) 525 1009

• Emergency telephone number: NZ Emergency 0800 992 881 (0800WYATT1)

## 2 Hazards identification

## · Classification of the substance or mixture



Flam. Liq. 3 H226 Flammable liquid and vapour.



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corrosion Eye Dam. 1 H318 Causes serious eye damage. Skin Irrit. 2 H315 Causes skin irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation. Acute Tox. 5 H313 May be harmful in contact with skin. Acute Tox. 5 H333 May be harmful if inhaled. · Additional information: 3.1B Flammable liquid 6.1E Substances that are acutely toxic - May be harmful, aspiration hazard 6.3A Substances that are irritating to the skin 8.3A Substances that are corrosive to ocular tissue 6.3A Substances that are irritating to the skin 6.9 (Respiratory tract irritant) · Label elements • GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).

·Hazard pictograms



- · Signal word Danger
- · Hazard-determining components of labelling:
- xylene butan-1-ol 3,6-diazaoctanethylenediamin ethylbenzene
- · Hazard statements

H226 Flammable liquid and vapour. H313 May be harmful in contact with skin.



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H333 May be harmful if inhaled.H315 Causes ski⊤irritation.H316 Causes serious eye damage.H317 May cause an allergic skin reaction.H335 May cause respiratory irritation.• Precautionary statementsP210P210P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.P305+P351+P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.<br/>Continue rinsing.P310Immediately 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.

· Other hazards

### · Results of PBT and vPvB assessment

• **PBT:** Not applicable.

·vPvB: Not applicable.

## 3 Composition/Information on ingredients

## $\cdot$ Chemical characterisation: Mixtures

· **Description:** Mixture of hazardous substances

#### · Dangerous components:

CAS: 1330-20-7	xylene	≥25-<40%
EINECS: 215-535-7	Flam. Liq. 3, H226	
Index number: 601-022-00-9 RTECS: ZE 2100000	Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335	
	Acute Tox. 5, H303	>0 /100/
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 RTECS: DA 0700000	ethylbenzene Flam. Liq. 2, H225 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319 Acute Tox. 5, H303	≥0-‹10%
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 RTECS: EO 1400000	butan-1-ol Flam. Liq. 3, H226 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336 Acute Tox. 5, H313	5-<10%
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≥1-<2.5%

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CAS: 112-24-3 3,6-diazaoctanethylenediamin EINECS: 203-950-6 Skin Corr. 1B, H314 Index number: 612-059-00-5 Acute Tox. 4, H312; Skin Sens. 1, H317 Acute Tox. 5, H303; Aquatic Chronic 3, H412

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

## 4 First aid measures

- · 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.

#### • 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.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.

· Information for doctor:

· Most important symptoms and effects, both acute and delayed No further relevant information available.

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Fire fighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- ·Advice for firefighters

Firefighters should always protective equipment and breathing apparatus when handling fire coming from these products

- Speial protective equipment and fire fighting procedures: No special measures required.
- · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system. HAZ CHEM CODE: 3YE

## 6 Accidental release measures

## $\cdot$ Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.



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#### • Environmental precautions:

Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

#### • Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

## ·Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## 7 Handling and storage

- ·Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

#### · Control parameters

Ingredients with limit values that require monitoring at the workplace:

#### 1330-20-7 xylene

WES (New Zealand) Long-term value: 217 mg/m<sup>3</sup>, 50 ppm

IOELV (EU) Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin



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#### 100-41-4 ethylbenzene

WES (New Zealand) Short-term value: 543 mg/m<sup>3</sup>, 125 ppm Long-term value: 434 mg/m<sup>3</sup>, 100 ppm

Short-term value: 884 mg/m<sup>3</sup>, 200 ppm IOELV (EU) Long-term value: 442 mg/m<sup>3</sup>, 100 ppm Skin

#### 71-36-3 butan-1-ol

WES (New Zealand) Ceiling limit: 150 mg/m<sup>3</sup>, 50 ppm skin

#### · Regulatory information

WES (New Zealand): Workplace Exposure Standards and Biological Exposure Indices IOELV (EU): (EU) 2019/1831

- Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment:

#### • General protective and hygienic measures:

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 skin. Avoid contact with the eyes and skin.

#### · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### · Protection of hands:



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.



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#### · 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.
- For the permanent contact gloves made of the following materials are suitable: Fluorocarbon rubber (Viton)
- For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable: Rubber gloves
- Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

# 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

Appearance:	
Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	: 116-118 °C
Flash point:	23 - 60 °C
Flammability (solid, gas):	Not applicable.
Autoignition temperature:	340 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Risk of explosion by shock, friction, fire or other sources of ignition.
Explosion limits:	
Lower:	1.1 Vol %
Upper:	7 Vol %
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·Vapour pressure at 20 °C:	6.7 hPa
· Density at 20 °C:	0.87648 g/cm³
· Relative density	Not determined.
·Vapour density	Not determined.
· Evaporation rate	Not determined.
·Solubility in / Miscibility with	
water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
·Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	36.9-49.2 %
VOC (EC)	-
	323.7-431.4 g/l
Solids content (volume):	0.0 %
· Other information	No further relevant information available.

# 10 Stability and reactivity

· **Reactivity** No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid No further relevant information available.

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

# 11 Toxicological information

·Information on toxicological effects

· Acute toxicity

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 5,620-6,949 mg/kg (rat)



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Dermal LD50 4,483-5,816 mg/kg (rabbit) Inhalative LC50/4 h 25-34.6 mg/l 1330-20-7 xylene

Oral LD50 4,300 mg/kg (rat) Dermal LD50 2,000 mg/kg (rabbit)

Inhalative LC50/4 h 11 mg/l (ATE)

#### 100-41-4 ethylbenzene

Oral LD50 3,500 mg/kg (rat)

Dermal LD50 17,800 mg/kg (rabbit)

Inhalative LC50/4 h 11 mg/l (ATE)

#### 71-36-3 butan-1-ol

Oral LD50 790 mg/kg (rat)

Dermal LD50 3,400 mg/kg (rabbit)

Inhalative LC50/4 h 8,000 mg/l (rat)

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

Oral LD50 2,500 mg/kg (rat)

Dermal LD50 805 mg/kg (rabbit)

· 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.

#### · Respiratory or skin sensitisation

Sensitisation possible through skin contact.

Sensitising effect through inhalation is possible by prolonged exposure.

#### ·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

## 12 Ecological information

#### · Toxicity

#### • Aquatic toxicity:

This product is not toxic for the aquatic life. Nevertheless do not dispose the product or any cleaning solvents used along with this product into the sea



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#### · Persistence and degradability

This prouduct contains polyesteric molecules and organic solvents and is not known to be bioaccumulative. It can be considered as biodegradable in small quantities. In case of disposal, it should be treated as a hazardous material and should be disposed accordingly. Do not just throw it away

- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- ·Additional ecological information:

#### · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into the ground.

#### · Results of PBT and vPvB assessment

- **PBT:** This product contains no substance that is considered to be persistent, bioaccumulating or non toxic(PBT).
- ·**vPvB:** This mixture contains no substance that is considered to be very persistent or very bioaccumulating (vPvB).
- Other adverse effects No further relevant information available.

## \*13 Disposal considerations

- ·Waste treatment methods
- · Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

## 14 Transport information

·UN-Number ·ADR, IMDG, IATA

· UN proper shipping name

- ·ADR
- · IMDG, IATA

UN1263

UN1263 PAINT RELATED MATERIAL PAINT RELATED MATERIAL

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·Transport hazard class(es)	
·ADR	
· Class	3 (F1) Flammable liquids.
·Label	3
·IMDG, IATA	
A	
8	
· Class	3 Flammable liquids.
·Label	3
· Packing group	
· ADR, IMDG, IATA	111
Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	30
· EMS Number:	F-E,S-E
· Stowage Category	A
· Transport in bulk according to Annex II of Marpol	and
the IBC Code	Not applicable.
<ul> <li>Transport/Additional information:</li> </ul>	
·ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
<ul> <li>Tunnel restriction code</li> </ul>	D/E
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· 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
· IATA · Remarks: · UN "Model Regulation":	HAZ CHEM CODE: 3YE UN 1263 PAINT RELATED MATERIAL, 3, III
<b>15 Regulatory information</b> •3Y • <b>Safety, health and environmental reg</b> None of the ingredients is listed.	ulations/legislation specific for the substance or mixture
• New Zealand Inventory of Chemicals	
All ingredients are listed. • HSNO Approval numbers HSNO Approval number Group standard name HSNO Hazard classification Refer to section	ngs and Colourandts (Flammable) Group Standard 2006 on 2
1330-20-7 xylene: HSR000983	
100-41-4 ethylbenzene: HSR001151	
71-36-3 butan-1-ol: HSR001096 112-24-3 3,6-diazaoctanethylenediamin: H • GHS label elements The product is classi • Hazard pictograms	SR003570 ified and labelled according to the Globally Harmonised System (GHS).
GHS02 GHS05 GHS07	

· Signal word Danger

# · Hazard-determining components of labelling:

xylene butan-1-ol 3,6-diazaoctanethylenediamin



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ethylbenzene

#### · Hazard statements

H226 Flammable liquid and vapour.

H313 May be harmful in contact with skin.

H333 May be harmful if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

#### Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P303+P361+P353 IF ON SKIN (or hair): Remove/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.
- 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 P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- Chemical safety assessment: A Chemical Safety Assessment has been carried out.

## 16 Other information

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

#### · Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H303 May be harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H313 May be 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.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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

H412 Harmful to aquatic life with long lasting effects.

#### · Department issuing SDS: Department of Quality Control

#### · Contact:

EN Chemicals S.A. 57 009 Kalochori Thessalonikil, GREECE T: +30 2310 755 428 F: +30 2310 755 428 info@enchemicals.com www.enchemicals.com

#### • Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 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

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 5: Acute toxicity - oral – Category 5

Acute Tox. 4: Acute toxicity - dermal – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3



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STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

\*\* Data compared to the previous version altered.

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## Annex: Exposure scenario

- · Short title of the exposure scenario
- Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- Product category PC9a Coatings and paints, thinners, paint removers
- **Process category** PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
- · Article category AC1 Vehicles
- · Environmental release category ERC2 Formulation into mixture
- **Description of the activities / processes covered in the Exposure Scenario** See section 1 of the annex to the Safety Data Sheet.
- Conditions of use According to directions for use.
- **Duration and frequency** Frequency of use:
- · Physical parameters

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

- · Physical state Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- · Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.

#### $\cdot$ Other operational conditions affecting worker exposure

Avoid contact with eyes.

Avoid contact with the skin.

Avoid long-term or repeated skin contact.

Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

- · Other operational conditions affecting consumer exposure No special measures required.
- · Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- · Risk management measures
- · Worker protection
- · Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

· Technical protective measures

Ensure that suitable extractors are available on processing machines Provide explosion-proof electrical equipment.

• **Personal protective measures** Do not inhale gases / fumes / aerosols. Avoid contact with the skin.



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Avoid contact with the eyes.

Tightly sealed goggles

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### 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

## · Measures for consumer protection

Ensure adequate labelling.

Observe consumer information and advice on safe use.

### • Environmental protection measures

#### · Water

Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point. Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.

- **Soil** The product is only processed over the concrete collecting basin.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- $\cdot \, {\bf Consumer}$  This product is to be used by professional technitians only.
- · Guidance for downstream users

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.