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Printing date: 18.10.2021 Revision date: 18.10.2021

Version no. 2

SAFETY DATA SHEET According to 1907/2006/EC, Article 31

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

1.1 Product identifier

Trade name: H732 EPOXY HARDENER

· Article number: 950

· 1.2 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
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

- · 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

Hardening agent/ Curing agent Surface protection

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

HB BODY S.A.

B' ENTRANCE BLOCK 50 DA9 & MB6 Str

THESSALONIKI INDUSTRIAL AREA

57.022, SINDOS

THESSALONIKI, GREECE Ph: +30 2310 790 000 Fax: +30 2310 790 033

www.hbbody.com

email: hbbody@hbbody.com

Further information obtainable from:

HB BODY S.A.

B' ENTRANCE BLOCK 50 DA9 & MB6 Str THESSALONIKI INDUSTRIAL AREA

57.022, SINDOS

THESSALONIKI,GREECE Ph: +30 2310 790 000 Fax: +30 2310 790 033 www.hbbody.com

email: hbbody@hbbody.com

1.4 Emergency telephone number:

Regional Medicines and Poisons Information Centre NI

Pharmacy Department, Royal Hospital Suite

Grosvenor Road Belfast Telephone: +44 28 90 63 2032 Fax: +44 28 90 24 80 30

Emergency telephone: 844 892 0111

E-mail address: nirdic.nirdic@belfasttrust.hscni.net

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SECTION 2: Hazards identification

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



Flam. Liq. 3 H226 Flammable liquid and vapour.



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.

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms







GHS02

GHS05

· Signal word Danger

Hazard-determining components of labelling:

butan-1-ol

3,6-diazaoctanethylenediamin

2,4,6-tris(dimethylaminomethyl)phenol

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210 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.

P403+P235 Store in a well-ventilated place. Keep cool.

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.

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≥25-<40%

≥1-<2.5%

≥0.1-<0.9%

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· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- **Description:** Mixture of hazardous substances listed below with nonhazardous additions.

Dangerous components:

CAS: 1330-20-7 EINECS: 215-535-7

Index number: 601-022-00-9

RTECS: ZE 2100000

Reg.nr.: 01-2119488216-32-001 01-2119488216-32-002 01-2119488216-32-003

CAS: 100-41-4 EINECS: 202-849-4

Index number: 601-023-00-4

RTECS: DA 0700000 CAS: 71-36-3

EINECS: 200-751-6

Index number: 603-004-00-6 RTECS: E0 1400000

Reg.nr.: 01-2119484630-38-0000

CAS: 112-24-3 EINECS: 203-950-6

Index number: 612-059-00-5

CAS: 90-72-2

EINECS: 202-013-9

Index number: 603-069-00-0

xylene

Flam. Lig. 3, H226

Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315

≥1-<10% ethylbenzene

Flam. Lig. 2, H225

STOT RE 2, H373; Asp. Tox. 1, H304

(1) Acute Tox. 4, H332

5-<10% butan-1-ol

Flam. Liq. 3, H226 Eye Dam. 1, H318

Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336

3,6-diazaoctanethylenediamin

Skin Corr. 1B, H314 Acute Tox. 4, H312; Skin Sens. 1, H317

Aquatic Chronic 3, H412

2,4,6-tris(dimethylaminomethyl)phenol

Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317

• **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.

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.
- · 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.

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SECTION 5: Firefighting measures

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

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

· 5.6 Fire and explosion Hazards

Speial protective equipment and fire fighting procedures:

Firefighters should wear full protective flameproof clothing and self contained breathing apparatus for the firefighter if necessary. In the event of any fire try cool down the tanks with water spray. If possible do not allow the water used by firefighters to enter the drains or come in any contact with the water supply lines for the public. Always seek as appropriate.

• **Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· 6.3 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.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 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.

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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

1330-20-7 xylene

WEL Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk: BMGV

100-41-4 ethylbenzene

WEL Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm

71-36-3 butan-1-ol

WEL Short-term value: 154 mg/m³, 50 ppm

· Regulatory information WEL: EH40/2020 · Ingredients with biological limit values:

1330-20-7 xylene

BMGV 650 mmol/mol creatinine

Medium: urine

Sampling time: post shift Parameter: methyl hippuric acid

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 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.

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.

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For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

The breakthough time of gloves is unknown for this product itself. The glove material that can be used is recommended on the baseis of the different substances in the preparation.

- · 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

SECTION 9: Physical and chemical properties

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

Appearance:

Form: Fluid

Colour: According to product specification

Odour: CharacteristicOdour threshold: Not determined.

• **pH-value:** Mixture is non-soluble (in water).

Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 116-118 °C (71-36-3 butan-1-ol)

• 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 %

Vapour pressure:
 Density at 20 °C:
 Relative density
 Vapour density
 Evaporation rate
 Not determined.
 Not determined.
 Not determined.

Solubility in / Miscibility with

water: Fully miscible.

• Partition coefficient: n-octanol/water: Not determined.

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Trade name: H732 EPOXY HARDENER

Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

Solvent content:

 Organic solvents:
 36.1-47.8 %

 VOC (EC)
 317.6-420.8 g/l

Solids content (volume): 3.2 %

• 9.2 Other information No further relevant information available.

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 No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 15,277 mg/kg (rat)

Dermal LD50 4,967-6,556 mg/kg (rabbit)

Inhalative LC50/4 h 25.8-35.6 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)

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

Oral LD50 500 mg/kg (ATE)

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- Primary irritant effect:
- Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

- Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity 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.

SECTION 12: Ecological information

- · 12.1 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

· 12.2 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

- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 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.

- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** This product contains no substance that is considered to be persistent, bioaccumulating or non toxic(PBT).
- · **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

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.
- Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

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SECTION 14: Transport information

· 14.1 UN-Number

ADR, IMDG, IATA UN1263

· 14.2 UN proper shipping name

· ADR UN1263 PAINT

IMDG, IATA **PAINT**

· 14.3 Transport hazard class(es)

· ADR



Class 3 (F1) Flammable liquids.

Label

IMDG, IATA



·Class 3 Flammable liquids.

Label 3

14.4 Packing group

ADR, IMDG, IATA Ш

· 14.5 Environmental hazards:

Marine pollutant: No

· 14.6 Special precautions for user Warning: Flammable liquids.

Hazard identification number (Kemler code): **EMS Number:** F-E,S-E Stowage Category

· 14.7 Transport in bulk according to Annex II of Marpol

and the IBC Code Not applicable.

Transport/Additional information:

· ADR

Limited quantities (LQ) 51

Excepted quantities (EQ) Code: E1

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

Transport category · Tunnel restriction code D/E

· Limited quantities (LQ) 51 Excepted quantities (EQ)

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation": UN 1263 PAINT, 3, III Page 10/13 SAFETY DATA SHEET

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SECTION 15: Regulatory information

•3\

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

None of the ingredients is listed.

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms







GHS02

GHS05

GHS0

· Signal word Danger

· Hazard-determining components of labelling:

butan-1-ol

3,6-diazaoctanethylenediamin

2,4,6-tris(dimethylaminomethyl)phenol

· Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.

P403+P235 Store in a well-ventilated place. Keep cool.

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
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 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.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

According to 1907/2006/EC, Article 31

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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 organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

· Department issuing SDS: Department of Quality Control

Contact:

HB BODY S.A

Ms Olympia Stamkou Ph: +30 2310 790 032 fax: +30 2310 790 033

email: stamkou@hbbody.com

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)

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. Lig. 3: Flammable liquids - Category 3

Acute Tox. 4: Acute toxicity - 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. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation - Category 1

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

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

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

- **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.
- * Used amount per time or activity Smaller than 100 g per application.
- Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- 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.

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

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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
- **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.

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