

Hazardous according to criteria of Australian Safety and Compensation Council.

## 1 Identification

### · Product identifier

· **Trade name:** **H732 EPOXY HARDENER**

· **Article number:** 950

· **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

### · 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

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Ph: +30 2310 790 000

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email: hbbody@hbbody.com

### · **Emergency telephone number:**

If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 131 126, New Zeland 0800 764 766.

## 2 Hazard(s) Identification

### · Classification of the substance or mixture



flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

## Trade name: **H732 EPOXY HARDENER**



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.

### · Label elements

· **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

### · **Hazard pictograms**



GHS02



GHS05



GHS07

· **Signal word** Danger

### · **Hazard-determining components of labelling:**

xylene

butan-1-ol

3,6-diazaoctanethylenediamin

ethylbenzene

### · **Hazard statements**

H226 Flammable liquid and vapour.

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.

### · Other hazards

### · **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

**Trade name: H732 EPOXY HARDENER****3 Composition and Information on Ingredients****Chemical characterisation: Mixtures**

**Description:** Mixture of hazardous substances listed below with nonhazardous additions.

**Dangerous components:**

CAS: 1330-20-7	xylene	≥25-<40%
EINECS: 215-535-7	Flam. Liq. 3, H226	
Index number: 601-022-00-9	Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335	
RTECS: ZE 2100000		
CAS: 100-41-4	ethylbenzene	≥1-<10%
EINECS: 202-849-4	Flam. Liq. 2, H225	
Index number: 601-023-00-4	STOT RE 2, H373; Asp. Tox. 1, H304	
RTECS: DA 0700000	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
CAS: 71-36-3	butan-1-ol	5-<10%
EINECS: 200-751-6	Flam. Liq. 3, H226	
Index number: 603-004-00-6	Eye Dam. 1, H318	
RTECS: EO 1400000	Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	
CAS: 112-24-3	3,6-diazaoctanethylenediamin	≥1-<2.5%
EINECS: 203-950-6	Skin Corr. 1B, H314	
Index number: 612-059-00-5	Acute Tox. 4, H312; Skin Sens. 1, H317	

**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:** CO<sub>2</sub>, 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.

**Trade name: H732 EPOXY HARDENER****6 Accidental Release Measures**

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **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 and personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.
  - **Control parameters**
  - **Ingredients with limit values that require monitoring at the workplace:**
- 
- 1330-20-7 xylene  
WES Short-term value: 655 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 350 mg/m<sup>3</sup>, 80 ppm
- 100-41-4 ethylbenzene  
WES Short-term value: 543 mg/m<sup>3</sup>, 125 ppm  
Long-term value: 434 mg/m<sup>3</sup>, 100 ppm
- 71-36-3 butan-1-ol  
WES Peak limitation: 152 mg/m<sup>3</sup>, 50 ppm  
Sk
- **Additional information:** The lists valid during the making were used as basis.

**Trade name: H732 EPOXY HARDENER**· **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 through 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:** Mixture is non-soluble (in water).

· **Change in condition**

**Melting point/freezing point:** Undetermined.

**Initial boiling point and boiling range:** 116-118 °C

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**Trade name: H732 EPOXY HARDENER**

· <b>Flash point:</b>	23 - 60 °C
· <b>Flammability (solid, gas):</b>	Not applicable.
· <b>Autoignition temperature:</b>	340 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Risk of explosion by shock, friction, fire or other sources of ignition.
· <b>Explosion limits:</b>	
<b>Lower:</b>	1.1 Vol %
<b>Upper:</b>	7 Vol %
· <b>Vapour pressure:</b>	Not determined.
· <b>Density at 20 °C:</b>	0.88014 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Fully miscible.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	36.1-47.8 %
<b>VOC (EC)</b>	317.6-420.8 g/l
<b>Solids content (volume):</b>	3.2 %
· <b>Other information</b>	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 15,277 mg/kg (rat)

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**Trade name: H732 EPOXY HARDENER**

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)

**· 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

**· Persistence and degradability**

This product contains polyestheric 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.

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## Trade name: **H732 EPOXY HARDENER**

### · 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.
- **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
- **ADG, IMDG, IATA** UN1263
- UN proper shipping name
- **ADG** UN1263 PAINT
- **IMDG, IATA** PAINT
- Transport hazard class(es)

### · **ADG**



- **Class** 3 (F1) Flammable liquids.
- **Label** 3
- **IMDG, IATA**



- **Class** 3 Flammable liquids.
- **Label** 3
- Packing group
- **ADG, IMDG, IATA** III
- 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.



## Trade name: **H732 EPOXY HARDENER**

### · Transport/Additional information:

#### · **ADG**

#### · **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

#### · **Tunnel restriction code**

D/E

#### · **IMDG**

#### · **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

#### · UN "Model Regulation":

UN 1263 PAINT, 3, III

### \* 15 Regulatory information

·3Y

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

None of the ingredients is listed.

#### · Australian Inventory of Industrial Chemicals

68410-23-1 fatty acid polyamides

1330-20-7 xylene

100-41-4 ethylbenzene

71-36-3 butan-1-ol

112-24-3 3,6-diazaoctanethylenediamin

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

#### · Standard for the Uniform Scheduling of Medicines and Poisons

1330-20-7 xylene: S6

71-36-3 butan-1-ol: S5, S6

#### · Australia: Priority Existing Chemicals

None of the ingredients is listed.

#### · **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

#### · **Hazard pictograms**



GHS02

GHS05

GHS07

#### · **Signal word** Danger

#### · **Hazard-determining components of labelling:**

xylene

butan-1-ol

3,6-diazaoctanethylenediamin

ethylbenzene

#### · **Hazard statements**

H226 Flammable liquid and vapour.

## Trade name: **H732 EPOXY HARDENER**

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.

H304 May be fatal if swallowed and enters airways.

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.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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

· **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

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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**Trade name: H732 EPOXY HARDENER**

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. 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. 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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

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

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**Trade name: H732 EPOXY HARDENER****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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**Trade name: H732 EPOXY HARDENER****· 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 technicians 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.