

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

#### 1.1 Product identifier

Trade name: BODY 340 PLASTOFIX 1K ADHESION PROMOTER

**Article number: 316** 

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

Product category PC9a Coatings and paints, thinners, paint removers

**Process category** 

PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

Environmental release category ERC2 Formulation of preparations

**Article category AC1** Vehicles

Application of the substance / the preparation

**Priming** 

**Surface protection** 

Adhesion promoter primer

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

Manufacturer/Supplier:

H.B. 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

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Further information obtainable from:

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1.4 Emergency telephone number: +30 2310 790 000

## **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R20/21-63: Harmful by inhalation and in contact with skin. Possible risk of harm to the unborn child.



Xi: Irritant

R38: Irritating to skin.



F; Highly flammable

R11: Highly flammable.

(Contd. on page 2)

### Trade name: BODY 340 PLASTOFIX 1K ADHESION PROMOTER

(Contd. of page 1)

### Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

### **Classification system:**

The classification is according to the latest editions of the EU-lists addapting Directive 67/548/EEC on the classification, packaging and labelling of dangerous substances and extended by company and literature data.

#### 2.2 Label elements

### Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

### Code letter and hazard designation of product:





Xn Harmful

F Highly flammable

## Hazard-determining components of labelling:

toluene

xylene

### Risk phrases:

- 11 Highly flammable.
- 20/21 Harmful by inhalation and in contact with skin.
- 38 Irritating to skin.
- 63 Possible risk of harm to the unborn child.

#### **Safety phrases:**

- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition No smoking.
- 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- 25 Avoid contact with eyes.
- 29 Do not empty into drains.
- 33 Take precautionary measures against static discharges.
- 36/37 Wear suitable protective clothing and gloves.
- 43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
- 51 Use only in well-ventilated areas.
- 60 This material and its container must be disposed of as hazardous waste.
- 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### 2.3 Other hazards

### Results of PBT and vPvB assessment

This product contains no substance that is considered to be persistent, bioaccumulating or non toxic(PBT). This mixture contains no substance that is considered to be very persistent or very bioaccumulating (vPvB).

PBT: Not applicable. vPvB: Not applicable.

### **SECTION 3: Composition/information on ingredients**

### 3.2 Chemical characterization: Mixtures

**Description:** Mixture of hazardous substances

**Dangerous components:** 

(Contd. on page 3)

### Trade name: BODY 340 PLASTOFIX 1K ADHESION PROMOTER

CAS: 1330-20-7	xylene	80 - <90
EINECS: 215-535-7	<b>X</b> Xn R20/21	
Index number: 601-022-00-9	<b>★</b> Xi R38	
RTECS: ZE 2100000	$\overline{\mathbf{R10}}$	
Reg.nr.: 01-2119488216-32-001	<b>◈</b> Flam. Liq. 3, H226	
01-2119488216-32-002	<b>Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315</b>	
01-2119488216-32-003		
CAS: 108-88-3	toluene	5 - <10%
EINECS: 203-625-9	<b>X</b> Xn R48/20-63-65	
Index number: 601-021-00-3	Xi R38	
RTECS: XS 5250000	<b>8</b> F R11	
Reg.nr.: 01-2119471310-51-0000		
01-2119471310-51-0003	Repr. Cat. 3	
01-2119471310-51-0005	♦ Flam. Liq. 2, H225	
	🕸 Repr. 2, Ĥ361d; STOT RE 2, H373; Asp. Tox. 1, H304	
01-2119471310-51-0027	♦ Skin Irrit. 2, H315; STOT SE 3, H336	
CAS: 100-41-4	ethylbenzene	< 2.5%
EINECS: 202-849-4	<b>X</b> Xn R20	
Index number: 601-023-00-4	<b>8</b> F R11	
RTECS: DA 0700000	♦ Flam. Liq. 2, H225	
	<b>♦ Acute Tox. 4, H332</b>	
CAS: 108-90-7	chlorobenzene	< 2.5%
EINECS: 203-628-5	<b>X</b> Xn R20	
Index number: 602-033-00-1	N R51/53	
RTECS: CZ 0175000	R10	
	<b>◈</b> Flam. Liq. 3, H226	
	♦ Aquatic Chronic 2, H411	
	♠ Acute Tox. 4, H332	

## **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

#### **General information:**

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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. 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.

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.

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

## Suitable extinguishing agents:

General aqueous film forming foam, Carbon dioxide (CO2), dry chemical extinguishing powder or water spray. Do not use water.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture No further relevant information available.

### **Hazarous combustion products**

Fire will produce a dense black smoke containing hazardous decomposition by products. Exposure to those may be a hazard to health.

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### 5.3 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:

Mouth respiratory protective device.

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:

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

Inform respective authorities in case of seepage into water course or sewage system.

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).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

### 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: Store in a cool location.

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

As genoral storage guide: store separately from oxidizing agents and strongly alkaline and strongly acidic materials. Do not store together with explosives, gases, oxidizing solids, products which form flammable gases in contact with water, oxidizing products, infectious products and radioactive products.

## Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

Additional information about design of technical facilities: No further data; see item 7.

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#### Trade name: BODY 340 PLASTOFIX 1K ADHESION PROMOTER

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### 8.1 Control parameters

1330-20-7 xylene	
WEL Short-term value: 441 mg/m <sup>3</sup> , 100 nnm	

Ingredients with limit values that require monitoring at the workplace:

Long-term value: 441 mg/m<sup>2</sup>, 100 ppm

Sk; BMGV

108-88-3 toluene

WEL Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm

Sk

100-41-4 ethylbenzene

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

Sk

**DNELs** 

CAS No: Substance End Use Routes of exposure Frequency Type Value
123-86-4 Butyl Acetate Workers Inhalation Long Term Systemic Effect
100mg/kg

### **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 selfcontained 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.

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.

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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

<b>SECTION 9: Phy</b>	vsical and c	hemical	properties

9.1 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/Melting range: Undetermined. Boiling point/Boiling range: 110 °C

Flash point: ≤ 21 °C

Flammability (solid, gaseous): Not applicable.

Autoignition temperature: 500 °C

**Decomposition temperature:** Not determined.

Self-igniting: Product is not selfigniting.

Danger of explosion: Risk of explosion by shock, friction, fire or other sources of ignition.

**Explosion limits:** 

Lower: 1.1 Vol % Upper: 7.0 Vol %

Vapour pressure at 20 °C: 6.7 hPa

**Density at 20 °C:** 0.876 g/cm<sup>3</sup>

Relative density
Vapour density
Not determined.
Evaporation rate
Not determined.
Not determined.

Solubility in / Miscibility with

water: Not miscible or difficult to mix.

Partition coefficient (n-octanol/water): Not determined.

**Viscosity:** 

Dynamic: Not determined. Kinematic: Not determined.

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**Solvent content:** 

 Organic solvents:
 96.1 %

 VOC (EC)
 841.7 g/l

Solids content (volume): 3.6 %

9.2 Other information No further relevant information available.

### **SECTION 10: Stability and reactivity**

- 10.1 Reactivity
- 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:** 

	I D/I C50	0 values relevant for classification:
		values relevant for Classification.
1330-20-7	xylene	
Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
108-88-3 to	oluene	
Oral	LD50	5000 mg/kg (rat)
Dermal	LD50 (static)	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)
100-41-4 e	thylbenzene	
Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	17800 mg/kg (rabbit)
108-90-7 c	hlorobenzene	
Oral	LD50	2290 mg/kg (rat)

### **Primary irritant effect:**

on the skin: Irritant to skin and mucous membranes.

on the eye: No irritating effect.

Sensitization: Sensitizing 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:

Harmful Irritant

## **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

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### Trade name: BODY 340 PLASTOFIX 1K ADHESION PROMOTER

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### 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

This product is not known to have bioaccumulative potentials. It should not be disposed in areas where living organisms could consume. Dispose it as a hazardous material according to local laws and regislations

#### 12.4 Mobility in soil

This product is not considered to present any mobility in soil. Do not dispose it in the soil and treat it as a hazardous product according to local laws and legislations.

### 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.

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: This mixture contains no substance that is considered to be very persistent or very bioaccumulating (vPvB).

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.

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ADR, IMDG, IATA UN1263

# 14.2 UN proper shipping name

ADR 1263 PAINT, special provision 640D

IMDG, IATA PAINT

### 14.3 Transport hazard class(es)

**ADR** 



Class 3 (F1) Flammable liquids.

Label 3

IMDG, IATA



Class 3 Flammable liquids.

Label

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### Trade name: BODY 340 PLASTOFIX 1K ADHESION PROMOTER

		(Contd. of pag
14.4 Packing group ADR, IMDG, IATA	П	
	11	
14.5 Environmental hazards:		
Marine pollutant:	No	
14.6 Special precautions for user	Warning: Flammable liquids.	
Danger code (Kemler):	33	
EMS Number:	F-E,S-E	
Segregation groups	Liquid halogenated hydrocarbons	
14.7 Transport in bulk according to Annex I	I of	
MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:		
ADR		
Limited quantities (LQ)	5L	
Transport category	2	
Tunnel restriction code	D/E	
UN "Model Regulation":	UN1263, PAINT, special provision 640D, 3, II	

# **SECTION 15: Regulatory information**

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

## Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

### Code letter and hazard designation of product:





Xn Harmful

F Highly flammable

## Hazard-determining components of labelling:

toluene

xylene

### Risk phrases:

- 11 Highly flammable.
- 20/21 Harmful by inhalation and in contact with skin.
- 38 Irritating to skin.
- 63 Possible risk of harm to the unborn child.

## Safety phrases:

- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition No smoking.
- 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- 25 Avoid contact with eyes.
- 29 Do not empty into drains.
- 33 Take precautionary measures against static discharges.

36/37 Wear suitable protective clothing and gloves.

- 43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
- 51 Use only in well-ventilated areas.
- 60 This material and its container must be disposed of as hazardous waste.
- 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

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Trade name: BODY 340 PLASTOFIX 1K ADHESION PROMOTER

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### **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.
- May be fatal if swallowed and enters airways. H304
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H332 Harmful if inhaled.
- May cause drowsiness or dizziness. H336
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- Toxic to aquatic life with long lasting effects. H411
- R10 Flammable.
- R11 Highly flammable.
- Harmful by inhalation. **R20**
- R20/21 Harmful by inhalation and in contact with skin.
- **R38** Irritating to skin.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Possible risk of harm to the unborn child.
- **R65** Harmful: may cause lung damage if swallowed.
- **R67** Vapours may cause drowsiness and dizziness.

### Classification according to Regulation (EC) No 1272/2008



Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.



GHS07

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation.

**Department issuing MSDS: Department of Quality Control** 

**Contact:** H.B BODY S.A

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

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### Abbreviations and acronyms:

RID: Reglement 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 Organization

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) DNEL: Derived No-Effect Level (REACH) LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent

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\* Data compared to the previous version altered.

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## **Annex: Exposure scenario**

### Short title of the exposure scenario

General Statement: The exposure senarios on the MSDS tend to provide specific information on how a hazardous substance, found in a preparation or as a raw material can be managed and controlled. It considers specific conditions of use in order to ensure that a use can be safe to humans and the environment. Identified risk management measures are to be implemented unless the downstream user is able to ensure a safe handling of the material in a different way.

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 preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Article category AC1 Vehicles

**Environmental release category ERC2** Formulation of preparations

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.

Other operational conditions affecting worker exposure

Avoid contact with the skin.

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**

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

### Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Pregnant women should strictly avoid inhalation or skin contact.

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.

Soil The product is only processed over the concrete collecting basin.

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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

GB