

## Safety Data Sheet

in accordance with HSNO

Printing date: 11.06.2020

Version no. 1

Revision date: 11.06.2020

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

· **Product identifier**

· **Trade name: EN 6100 NORMAL HARDENER**

· **Article number:** 1007

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

· **Life cycle stages** F Formulation or re-packing

· **Sector of Use** SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· **Product category** PC9a Coatings and paints, thinners, paint removers

· **Process category** PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

· **Environmental release category** ERC2 Formulation into mixture

· **Article category** AC1 Vehicles

· **Technical function** Hardener

· **Application of the substance / the mixture** Surface protection

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

· **Manufacturer/Supplier:**

EN Chemicals S.A.

57 009 Kalochori

Thessaloniki, 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**



flame

Flam. Liq. 3

H226

Flammable liquid and vapour.

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Skin Irrit. 2	H315	Causes skin irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
Acute Tox. 5	H333	May be harmful if inhaled.
Aquatic Acute 3	H402	Harmful to aquatic life.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

· **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
- 9.1D Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action
- 9.1C Substances that are harmful in the aquatic environment
- 9.1D Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action

· **Label elements**

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

· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Warning

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

- xylene
- Isocyanates
- 2-butoxyethyl acetate

· **Hazard statements**

H226	Flammable liquid and vapour.
H333	May be harmful if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

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### Trade name: EN 6100 NORMAL HARDENER

#### · Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P241 Use explosion-proof electrical/ventilating/lighting equipment.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 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

#### · Chemical characterisation: Mixtures

#### · Description: Mixture of hazardous substances

#### · Dangerous components:

CAS: 28182-81-2	Isocyanates	30-<35%
NLP: 500-060-2	 Skin Sens. 1, H317 Aquatic Acute 3, H402; Aquatic Chronic 3, H412	
CAS: 1330-20-7	xylene	25-<30%
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	Acute Tox. 5, H303	
CAS: 123-86-4	n-butyl acetate	20-<25%
EINECS: 204-658-1	 Flam. Liq. 3, H226	
Index number: 607-025-00-1	 STOT SE 3, H336	
RTECS: AF 7350000	Acute Tox. 5, H333	
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	10-<15%
EINECS: 203-603-9	 Flam. Liq. 3, H226	
Index number: 607-195-00-7	Acute Tox. 5, H333	
CAS: 112-07-2	2-butoxyethyl acetate	2.5-<5%
EINECS: 203-933-3	 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	
Index number: 607-038-00-2	Flam. Liq. 4, H227	
RTECS: KJ 8925000		

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

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### 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.

· **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.

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### 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.

HAZ CHEM CODE: 3YE

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### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **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.

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).

Dispose contaminated material as waste according to item 13.

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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.

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## 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.

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## 8 Exposure controls/personal protection

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**28182-81-2 Isocyanates**

WES (New Zealand) Short-term value: 0.07 mg/m<sup>3</sup>

Long-term value: 0.02 mg/m<sup>3</sup>

sen, vapours, mist, dust; as -NCO

**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/m<sup>3</sup>, 100 ppm

Long-term value: 221 mg/m<sup>3</sup>, 50 ppm

Skin

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**Trade name: EN 6100 NORMAL HARDENER****123-86-4 n-butyl acetate**

WES (New Zealand) Short-term value: 950 mg/m<sup>3</sup>, 200 ppm  
Long-term value: 713 mg/m<sup>3</sup>, 150 ppm

IOELV (EU) Short-term value: 723 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 241 mg/m<sup>3</sup>, 50 ppm

**108-65-6 2-methoxy-1-methylethyl acetate**

IOELV (EU) Short-term value: 550 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 275 mg/m<sup>3</sup>, 50 ppm  
Skin

**112-07-2 2-butoxyethyl acetate**

IOELV (EU) Short-term value: 333 mg/m<sup>3</sup>, 50 ppm  
Long-term value: 133 mg/m<sup>3</sup>, 20 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

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### · 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 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:	Colourless
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.

#### · Change in condition

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

**Initial boiling point and boiling range:** 124-128 °C

· **Flash point:** 23 - 60 °C

· **Flammability (solid, gas):** Not applicable.

· **Autoignition temperature:** 315 °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.

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· <b>Explosion limits:</b>	
Lower:	1.1 Vol %
Upper:	10.8 Vol %
· <b>Vapour pressure at 20 °C:</b>	10.7 hPa
· <b>Density at 20 °C:</b>	0.98618 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>	
Dynamic:	Not determined.
Kinematic:	Not determined.
· <b>Solvent content:</b>	
Organic solvents:	65.7 %
VOC (EC)	648.2 g/l
Solids content (volume):	0.0 %
· <b>Other information</b>	No further relevant information available.

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## 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.
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### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**
- **LD/LC50 values relevant for classification:**

#### ATE (Acute Toxicity Estimates)

Oral LD50 13,368 mg/kg (rat)

Dermal LD50 6,653 mg/kg (rabbit)

Inhalative LC50/4 h &gt;24.2 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)

#### 123-86-4 n-butyl acetate

Oral LD50 13,100 mg/kg (rat)

Dermal LD50 &gt;5,000 mg/kg (rabbit)

Inhalative LC50/4 h &gt;21 mg/l (rat)

#### 108-65-6 2-methoxy-1-methylethyl acetate

Oral LD50 8,532 mg/kg (rat)

Inhalative LC50/4 h 35.7 mg/l (rat)

#### 112-07-2 2-butoxyethyl acetate

Oral LD50 2,400 mg/kg (rat)

Dermal LD50 1,580 mg/kg (rabbit)

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

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation** No irritating effect.
- **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:

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Irritant

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## 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 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.

- **Ecotoxicological effects:**

- **Remark:** Harmful to fish

- **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.

Harmful to aquatic organisms

- **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.

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## 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.

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## 14 Transport information

- UN-Number
- ADR, IMDG, IATA UN1263
- UN proper shipping name
- ADR UN1263 PAINT
- IMDG, IATA PAINT
- Transport hazard class(es)
- ADR



- Class 3 (F1) Flammable liquids.
- Label 3

· IMDG, IATA



- Class 3 Flammable liquids.
- Label 3
- Packing group
- ADR, IMDG, IATA III
- Environmental hazards: Not applicable.
- 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.
- Transport/Additional information:

- ADR
- Limited quantities (LQ) 5L

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· 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
<hr/>	
· 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
<hr/>	
· IATA	
· Remarks:	HAZ CHEM CODE: 3YE
· UN "Model Regulation":	UN 1263 PAINT, 3, III

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## 15 Regulatory information

•3Y

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

28182-81-2 Isocyanates (30-&lt;35%)

**· New Zealand Inventory of Chemicals**

All ingredients are listed.

**· HSNO Approval numbers**

HSNO Approval number HSR 002662

Group standard name Surface Coatings and Colourants (Flammable) Group Standard 2006

HSNO Hazard classification Refer to section 2

28182-81-2 Isocyanates: HSR003565

1330-20-7 xylene: HSR000983

123-86-4 n-butyl acetate: HSR001091

108-65-6 2-methoxy-1-methylethyl acetate: HSR001219

112-07-2 2-butoxyethyl acetate: HSR001155

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

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### · Hazard pictograms



GHS02 GHS07

### · Signal word Warning

### · Hazard-determining components of labelling:

xylene

Isocyanates

2-butoxyethyl acetate

### · Hazard statements

H226 Flammable liquid and vapour.

H333 May be harmful if inhaled.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

### · Precautionary statements

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

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

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## 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

H226 Flammable liquid and vapour.

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H227 Combustible liquid.  
H302 Harmful if swallowed.  
H303 May be harmful if swallowed.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H332 Harmful if inhaled.  
H333 May be harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H402 Harmful to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.

**Contact:**

EN Chemicals S.A.  
57 009 Kalochori  
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info@enchemicals.com  
www.enchemicals.com

**Abbreviations and acronyms:**

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. 3: Flammable liquids – Category 3  
Flam. Liq. 4: Flammable liquids – Category 4  
Acute Tox. 5: Acute toxicity - oral – Category 5  
Acute Tox. 4: Acute toxicity - dermal – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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· \* Data compared to the previous version altered.

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### Annex: Exposure scenario

· **Short title of the exposure scenario**

· **Sector of Use** SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· **Product category** PC9a Coatings and paints, thinners, paint removers

· **Process category** PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

· **Article category** AC1 Vehicles

· **Environmental release category** ERC2 Formulation into mixture

· **Technical function** Hardener

· **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.

Use only on hard ground.

· **Other operational conditions affecting worker exposure**

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**

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

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Use product only in enclosed systems.

#### · **Personal protective measures**

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

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.

Do not allow to reach sewage system.

##### · **Soil**

The product is only processed over the concrete collecting basin.

Prevent contamination of soil.

#### · **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.