

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 16.03.2018

Version number 2

Revision: 16.03.2018


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

- **1.1 Product identifier**
- **Trade name: ULTRAFLEX 56**
- **Article number: 115118.H126.WEL**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Product category PC1 Adhesives, sealants**
- **Application of the substance / the mixture Adhesives**
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
EURO-LEDER  
Werner-von-Siemens-Str. 35 a  
D – 49124 Georgsmarienhütte  
Tel.: ++49 (0) 5401/88081-0  
Mail: info@euro-service-depot.de
- **Informing department: Regulatory department**
- **1.4 Emergency telephone number:**  
NCEC emergency service  
+44 (0) 1235 239 670 (24 hours)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Flam. Liq. 2 H225 Highly flammable liquid and vapour.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
STOT SE 3 H336 May cause drowsiness or dizziness.

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- **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 GHS07
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
acetone  
ethyl acetate
- **Hazard statements**  
H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.
- **Precautionary statements**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P241 Use explosion-proof electrical/ventilating/lighting equipment.

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P303+P361+P353 **IF ON SKIN (or hair):** 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.

P405 Store locked up.

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.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**

- **Description:**

Adhesive.

Polyurethane

- **Dangerous components:**

CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-0000	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	50-100%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-0000	ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-50%

- **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**

Instantly remove any clothing soiled by the product.

Take affected persons into the open air.

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing** Do not induce vomiting; instantly call for medical help.

- **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**

CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

Use fire fighting measures that suit the environment.

Water haze

Foam

Fire-extinguishing powder

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- Carbon dioxide
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
  - Can be released in case of fire
  - Nitrous vitriol gases
  - Carbon monoxide and carbon dioxide
  - Isocyanate fumes and traces of hydrogen cyanide.
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**
  - Collect contaminated fire fighting water separately. It must not enter drains.
  - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Wear protective equipment. Keep unprotected persons away.
  - Ensure adequate ventilation
  - Keep away from ignition sources
  - Wear protective clothing.
- **6.2 Environmental precautions:** Do not allow to enter drainage system, 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).
  - Ensure adequate ventilation.
  - Do not flush with water or aqueous cleansing agents
  - Do not use tools that can cause ignition.
- **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 information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
  - Store in cool, dry place in tightly closed containers.
  - Ensure good ventilation/exhaustion at the workplace.
  - Take note of emission threshold.
  - Use solvent-proof equipment.
  - Keep out of the reach of children.
- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.  
Highly volatile, flammable constituents are released during processing.  
Fumes can combine with air to form an explosive mixture.  
Flammable mixtures may be formed in empty containers.

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Prevent any penetration into the ground.
- **Information about storage in one common storage facility:** Store away from foodstuffs.

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- **Further information about storage conditions:**  
Protect from heat and direct sunlight.  
Store in cool, dry conditions in original sealed container
- **Recommended storage temperature:** +10°C - +25°C
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:**

#### 67-64-1 acetone

WEL	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
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#### 141-78-6 ethyl acetate

WEL	Short-term value: 400 ppm Long-term value: 200 ppm
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- **DNELs**

Aceton, CAS 67-64-1  
 dermal Langzeit (chronisch) systemisch: 186 mg/kg/Tag  
 inhalativ Kurzzeit (akut) lokal: 2420 mg/m<sup>3</sup>  
 inhalativ Kurzzeit (akut) systemisch: 1210 mg/m<sup>3</sup>  
 Ethylacetat, CAS 141-78-6 (Arbeitnehmer)  
 dermal Langzeit(chronisch) systemisch: 63 mg/kg/Tag  
 inhalativ Kurzzeit (akut) systemisch: 1468 mg/m<sup>3</sup>  
 inhalativ Langzeit(chronisch) lokal: 734 mg/m<sup>3</sup>  
 inhalativ Kurzzeit (akut) lokal: 1468 mg/m<sup>3</sup>  
 inhalativ Langzeit (chronisch) systemisch: 734mg/m<sup>3</sup>

- **PNECs**

Aceton, CAS 67-64-1  
 Wasser Süßwasser: 10,6 mg/l  
 Wasser Meerwasser: 1,06 mg/l  
 Wasser Aqua intermittent: 21mg/l  
 Wasser Süßwasser Sediment: 30,4 mg/kg  
 Wasser Meerwasser Sediment: 3,04 mg/kg  
 Boden - :29,5 mg/kg  
 Kläranlage (STP) -: 100 mg/l  
 Ethylacetat 141-78-6  
 Wasser Süßwasser: 0,26 mg/l  
 Wasser Meerwasser: 0,026 mg/l  
 Wasser Aqua intermittent: 1,65 mg/l  
 Wasser Süßwasser Sediment: 1,25 mg/kg  
 Wasser Meerwasser Sediment: 0,125 mg/kg  
 Boden - 0,24 mg/kg  
 Kläranlage (STP) - 650 mg/l  
 Sekundärvergiftung - 200 mg/kg

- **Additional information:** The lists that were valid during the compilation were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment**

- **General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

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Keep away from foodstuffs, beverages and food.  
 Take off immediately all contaminated clothing  
 Wash hands during breaks and at the end of the work.  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes and skin.

- **Breathing equipment:**



In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Use breathing protection in case of insufficient ventilation.

- **Recommended filter device for short term use:** Combination filter A-P2

- **Protection of hands:**



Protective gloves.

Solvent resistant gloves

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.

- **Eye protection:**



Tightly sealed safety glasses.

- **Body protection:** Protective work clothing.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

<b>Melting point/freezing point:</b>	Not determined
<b>Initial boiling point and boiling range:</b>	56 °C (DIN 53171)

- **Flash point:** -19 °C (DIN 53213)

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· <b>Inflammability (solid, gaseous)</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
· <b>Critical values for explosion:</b>	
<b>Lower:</b>	2.2 Vol % (EN 1839)
<b>Upper:</b>	13.0 Vol % (EN 1839)
· <b>Vapour pressure at 20 °C:</b>	233 hPa (DIN 51640)
· <b>Density at 20 °C</b>	0.88 g/cm <sup>3</sup> (DIN 51757)
· <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>	Not miscible or difficult to mix
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>dynamic at 20 °C:</b>	3600 mPas (Brookfield (ISO 2555))
<b>kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	78.9 %
<b>Solids content:</b>	21.1 % (ISO 3251)
· <b>9.2 Other information</b>	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 and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Develops readily flammable gases / fumes
- **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 that are relevant for classification:

##### 67-64-1 acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rbt)
Inhalative	LC50/4h	76 mg/l (rat)

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**141-78-6 ethyl acetate**

Oral	LD50	5,620 mg/kg (rat)
Inhalative	LC50/4h	22.5 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, 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**  
May cause drowsiness or dizziness.
- **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:

**67-64-1 acetone**

LC50/96h	8,300 mg/l (Lepomis macrochirus)
EC50/48h	12,600-12,700 mg/l (Daphnia magna)

**141-78-6 ethyl acetate**

LC50/96h	230 mg/l (Pimephales promelas)
IC50/48h	3,300 mg/l (Desmodesmus subspicatus)
EC50/48h	717 mg/l (Daphnia magna)

### · 12.2 Persistence and degradability

**67-64-1 acetone**

Bio.Abbaubark./28 d	91 % (-)
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**141-78-6 ethyl acetate**

Bio.Abbaubark./28 d	100 % (-)
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· **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 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

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

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

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## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated under adherence to official regulations.

- **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

- **14.1 UN-Number**

- **ADR, IMDG, IATA**

UN1133

- **14.2 UN proper shipping name**

- **ADR**

1133 ADHESIVES

- **IMDG, IATA**

ADHESIVES

- **14.3 Transport hazard class(es)**

- **ADR, IMDG, IATA**



- **Class**

3 Flammable liquids.

- **Label**

3

- **14.4 Packing group**

- **ADR, IMDG, IATA**

III

- **14.5 Environmental hazards:**

- **Marine pollutant:**

No

- **14.6 Special precautions for user**

Warning: Flammable liquids.

- **Kemler Number:**

33

- **EMS Number:**

F-E, S-E

- **Stowage Category**

A

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

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· **Transport/Additional information:**

· **ADR**  
 · **Limited quantities (LQ)** 5L  
 · **Excepted quantities (EQ)** Code: E1  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 1000 ml

· **Transport category** 3  
 · **Tunnel restriction code** D/E  
 · **Remarks:** Viscous according to ADR § 2.2.3.1.4 (Packaging group III when packed in receptacles not exceeding 450 L capacity)

· **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

· **Remarks:** Viscous according to 2.3.2.2 of the IMDG code (Packaging group III when packed in receptacles not exceeding 30 L capacity)

· **IATA**  
 · **Remarks:** Viscous according to IATA § 3.3.3.1 (Packaging group III when packed in receptacles not exceeding 30 L capacity)

· **UN "Model Regulation":** UN 1133 ADHESIVES, 3, III

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **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
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **National regulations**

· **Technical instructions (air):**

Class	Share in %
NK	50-100

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **VOC (EU) %** 78.84 %
- **Code MAL** 3-1
- **VOC (EU)** 693.8 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

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### SECTION 16: Other information

These data are based on our present knowledge. However, they 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.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

- **Department issuing data specification sheet:** Regulatory department

- **Contact:** EU-MSDS@hbfuller.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

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

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

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

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

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

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### Annex: Exposure scenario 1

- **Short title of the exposure scenario**

ACETONE (CAS 67-64-1)

*Industrielle Verwendung von Beschichtungen und Klebstoffen*

- **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- **Product category** PC1 Adhesives, sealants

- **Process category**

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC7 Industrial spraying

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

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC14 Tableting, compression, extrusion, pelletisation, granulation

PROC15 Use as laboratory reagent

- **Environmental release category** ERC3 Formulation into solid matrix

- **Description of the activities / processes covered in the Exposure Scenario**

See section 1 of the annex to the Safety Data Sheet.

- **Conditions of use** Customary application according to section 1.

- **Duration and frequency** 5 workdays/week.

- **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** Raw material.

- **Other operational conditions**

The usual precautionary measures should be adhered to general rules for handling chemicals.

- **Other operational conditions affecting environmental exposure** No special measures required.

- **Other operational conditions affecting worker exposure**

Avoid contact with eyes.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

- **Other operational conditions affecting consumer exposure** Keep out of the reach of children.

- **Other operational conditions affecting consumer exposure during the use of the product**

Not applicable.

- **Risk management measures**

- **Worker protection**

- **Organisational protective measures** No special measures required.

- **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 eyes.

Tightly sealed safety glasses.

Protective gloves.

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- **Measures for consumer protection**  
*Ensure adequate labelling.*  
*Keep locked up and out of the reach of children.*
- **Environmental protection measures**
- **Water** *No special measures required.*
- **Disposal measures** *Disposal must be made according to official regulations.*
- **Disposal procedures**  
*Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- **Waste type** *Partially emptied and uncleaned packaging*
- **Exposure estimation**
- **Consumer** *Not relevant for this Exposure Scenario.*

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### Annex: Exposure scenario 2

- **Short title of the exposure scenario**  
 ETHYL ACETATE (CAS141-78-6)  
 INDUSTRIAL USE IN RIGID FOAM, COATINGS, ADHESIVES AND SEALANTS
- **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- **Product category** PC1 Adhesives, sealants
- **Process category**  
 PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.  
 PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions  
 PROC5 Mixing or blending in batch processes  
 PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities  
 PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities  
 PROC10 Roller application or brushing  
 PROC13 Treatment of articles by dipping and pouring
- **Environmental release category**  
 ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
- **Description of the activities / processes covered in the Exposure Scenario**  
 See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use** Customary application according to section 1.
- **Duration and frequency**  
 8hrs (full working shift).  
 5 workdays/week.
- **Physical parameters**
- **Physical state** Liquid
- **Concentration of the substance in the mixture** The substance is main component.
- **Used amount per time or activity** 5500 tons per year
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting worker exposure**  
 Avoid contact with the skin and eyes.  
 Take precautionary measures against static discharge.  
 Keep away from sources of ignition - No smoking.
- **Other operational conditions affecting consumer exposure** Keep out of the reach of children.
- **Other operational conditions affecting consumer exposure during the use of the product**  
 Not applicable.
- **Risk management measures**
- **Worker protection**  
 Ensure adequate ventilation  
 Do not inhale gases / fumes / aerosols.
- **Organisational protective measures** Keep good industrial hygiene.
- **Technical protective measures**  
 Provide explosion-proof electrical equipment.  
 Keep containers tightly sealed.  
 Ensure that suitable extractors are available on processing machines
- **Personal protective measures**  
 Protective work clothing.  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes.  
 Tightly sealed safety glasses.  
 Protective gloves.

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**Safety data sheet**  
according to 1907/2006/EC, Article 31

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- **Measures for consumer protection**  
*Ensure adequate labelling.*  
*Keep locked up and out of the reach of children.*
- **Environmental protection measures**
- **Water** *No special measures required.*
- **Disposal measures** *Ensure that waste is collected and contained.*
- **Disposal procedures**  
*Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- **Waste type** *Partially emptied and uncleaned packaging*
- **Exposure estimation**
- **Worker (dermal)** *The calculated value is smaller than the DNEL.*
- **Worker (inhalation)** *The calculated value is smaller than the DNEL.*
- **Environment** *The calculated value is smaller than the PNEC.*
- **Consumer** *Not relevant for this Exposure Scenario.*
- **Guidance for downstream users**  
*Whether the downstream user uses the substance / the mixture within the scope of the Exposure Scenario can be determined by means of a technical assessment.*

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