

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.06.2015

Version number 6

Revision: 13.02.2014

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

- **1.1 Product identifier**
- Trade name technicoll® 8058
- **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:**
RUDERER KLEBETECHNIK GMBH
Harthausen Str. 2
D-85604 Zorneding
Tel.: +49 (0)8106/2421-0
Fax: +49 (0)8106/2421-19
- **Informing department:** Anwendungstechnik
- **1.4 Emergency telephone number:** Giftinformationszentrum (GIZ) Nord, Giftnotruf Tel.: +49 (0)551/19240

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. |
| Repr. 2 | H361d | Suspected of damaging the unborn child. |
| Aquatic Chronic 2 | H411 | Toxic to aquatic life with long lasting effects. |
| Skin Irrit. 2 | H315 | Causes skin irritation. |
| Eye Irrit. 2 | H319 | Causes serious eye irritation. |
| STOT SE 3 | H336 | May cause drowsiness or dizziness. |

- **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 GHS08 GHS09

- **Signal word** Danger
- **Hazard-determining components of labelling:**
Naphtha (petroleum), hydrotreated light toluene
- **Hazard statements**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

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- **Precautionary statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- 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.
- 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:**

Solvent based adhesive, based on Polychloroprene

- **Dangerous components:**

| | | |
|--|--|--------|
| CAS: 64742-49-0 EINECS: 265-151-9 Reg.nr.: 01-2119475515-33-0000 | Naphtha (petroleum), hydrotreated light Flam. Liq. 2, H225; Carc. 1B, H350; Asp. Tox. 1, H304 | 25-50% |
| 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 | 10-25% |
| 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 | 10-25% |
| CAS: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-211947310-51-0000 | toluene Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336 | 5-10% |
| CAS: 1314-13-2 EINECS: 215-222-5 | zinc oxide Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | 0.5-1% |

- **Additional information**

Note: R 45 inapplicable due to lower benzene content (< 0,001 %;< 10 ppm). CAS 64742-49-0, 64742-82-1 and 92062-15-2 are NOT to be classified as toxic components and contain mainly cyclohexane (benzene free quality).

For the wording of the listed risk 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**

In case of unconsciousness bring patient into stable side position for transport.

Supply fresh air.

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- **After skin contact**
Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact**
Rinse opened eye for several minutes (15 min) 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**
Water haze
Foam
Fire-extinguishing powder
Carbon dioxide
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter drains.

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
Use breathing protection against the effects of fumes/dust/aerosol.
Wear protective clothing.
- **6.2 Environmental precautions:**
Prevent material from reaching sewage system, holes and cellars.
Inform respective authorities in case product reaches water or sewage system.
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)
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
Send for recovery or disposal in suitable containers.
Use non sparking handtools.
- **6.4 Reference to other sections**
See Section 8 for information on personal protection equipment.

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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.
 - Ensure that suitable extractors are available on processing machines
 - Take note of emission threshold.
 - Use solvent-proof equipment.
 - Keep away from children
 - Avoid release to the environment.
 - Keep eye wash bottles available on working place.
- **Information about protection against explosions and fires:**
 - Keep ignition sources away - Do not smoke.
 - Protect from heat.
 - 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:**
 - Store in cool location.
 - Keep dark, cool and dry.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**
 - Please take care on national and local requirements.

- **8.1 Control parameters**

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

67-64-1 acetone

| | |
|-----|---|
| WEL | Short-term value: 3620 mg/m ³ , 1500 ppm |
| | Long-term value: 1210 mg/m ³ , 500 ppm |

141-78-6 ethyl acetate

| | |
|-----|---------------------------|
| WEL | Short-term value: 400 ppm |
| | Long-term value: 200 ppm |

108-88-3 toluene

| | |
|-----|---|
| WEL | Short-term value: 384 mg/m ³ , 100 ppm |
| | Long-term value: 191 mg/m ³ , 50 ppm |
| | Sk |

- **DNELs**

ETHYL ACETATE (CAS141-78-6):

Human exposure:

DNEL: 1468 mg/m³ (acute systemic effects; inhalation; workers)

DNEL: 1468 mg/m³ (acute local effects; inhalation; workers)

DNEL: 734 mg/m³ (long-term systemic effects; inhalation; workers)

DNEL: 734 mg/m³ (long-term local effects; inhalation; workers)

DNEL: 63 mg/kg body weight/day (long-term systemic effects; dermal; workers)

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DNEL: 734 mg/m³ (acute systemic effects; inhalation; general population)
 DNEL: 734 mg/m³ (acute local effects; inhalation; general population)
 DNEL: 367 mg/m³ (long-term systemic effects; inhalation; general population)
 DNEL: 4,5 mg/kg body weight/day (long-term systemic effects; oral; general population)
 DNEL: 367 mg/m³ (long-term local effects; inhalation; general population)
 DNEL: 37 mg/kg body weight/day (long-term systemic effects; dermal; general population)

ACETONE (CAS 64-67-1):

DNEL Long term Dermal 186 mg/kg bw/day Workers -
 DNEL Short term Inhalation 2420 mg/m³ Workers -
 DNEL Long term Inhalation 1210 mg/m³ Workers -
 DNEL Long term Oral 62 mg/kg bw/day Consumers -
 DNEL Long term Dermal 62 mg/kg bw/day Consumers -

DNEL Long term Inhalation 200 mg/m³ Consumers
 HYDROCARBONS C6, n-ALKANES, i-ALKANES, CYCLICS, n-HEXAN RICH

Long term Dermal 13 mg/kg bw/day Workers Systemic
 Long term Inhalation 93 mg/m³ Workers Systemic
 Long term Inhalation 20 mg/m³ Consumers Systemic
 Long term Dermal 7 mg/kg bw/day Consumers Systemic
 Long term Oral 6 mg/kg bw/day Consumers Systemic

TOLUENE (CAS 108-88-3):

DNEL Short term Inhalation 226 mg/m³ Man via the environment Systemic
 DNEL Short term Inhalation 226 mg/m³ Man via the environment Local
 DNEL Long term Dermal 226 mg/m³ Man via the environment Systemic
 DNEL Long term Inhalation 226 mg/kg bw/day Man via the environment Systemic
 DNEL Long term Inhalation 56,5 mg/m³ Man via the environment Systemic
 DNEL Long term Oral 8,13 mg/kg bw/day Man via the environment Systemic

• PNECs

HYDROCARBONS C6, n-ALKANES, i-ALKANES, CYCLICS, n-HEXAN RICH
 NA

ACETONE (CAS 67-64-1):

PNEC Marine 1,06 mg/l -
 PNEC Fresh water 10,6 mg/l -
 PNEC Fresh water sediment 30,4 mg/l -
 PNEC Marine water sediment 3,04 mg/l -
 PNEC Soil 0,112 mg/l -
 PNEC Sewage Treatment Plant 29,5 mg/l -

TOLUENE (CAS 108-88-3):

PNEC Fresh water sediment 0,68 mg/l Assessment Factors
 PNEC Marine water sediment 0,68 mg/l Assessment Factors
 PNEC Fresh water sediment 0,68 mg/l Assessment Factors
 PNEC Sewage Treatment Plant 13,61 mg/l Assessment Factors
 PNEC Fresh water sediment 16,39 mg/kg Assessment Factors
 PNEC Marine water sediment 16,39 mg/kg Assessment Factors
 PNEC Soil 2,89 mg/kg Assessment Factors

• **Additional information:** Based on information valid at the time of writing.

• 8.2 Exposure controls

• Personal protective equipment

• General protective and hygienic measures

Keep away from food, drink and animal feedingstuffs.
 Instantly remove any soiled and impregnated garments.
 Wash hands during breaks and at the end of the work.
 Do not inhale gases / fumes / aerosols.
 Avoid contact with the eyes and skin.

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- **Breathing equipment:**
In case of brief exposure or low pollution (exceeding of TLV) use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
Not necessary if room is well-ventilated.
Ensure that suitable extractors are available on processing machines
- **Recommended filter device for short term use:** Filter AX
- **Protection of hands:**
Solvent resistant gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Material of gloves** Butyl rubber, BR
- **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:

| | |
|----------------|----------------|
| Form: | Fluid |
| Colour: | Light brown |
| Smell: | Characteristic |

· Change in condition

| | |
|-------------------------------------|----------------|
| Melting point/Melting range: | Not determined |
| Boiling point/Boiling range: | 55 °C |

· **Flash point:** -25 °C

· **Ignition temperature:** 260 °C

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive vapour/air mixtures is possible.

· Critical values for explosion:

| | |
|---------------|------------|
| Lower: | 0.8 Vol % |
| Upper: | 13.0 Vol % |

· **Vapour pressure at 20 °C:** 247 hPa

· **Density at 20 °C** 0.82 g/cm³

· **Water:** Not miscible or difficult to mix

· Viscosity:

dynamic at 20 °C: 275 mPas (Brookf. RVT)

· Solvent content:

| | |
|--------------------------|--------|
| Organic solvents: | 81.3 % |
| Water: | 0.7 % |

Solids content: 18.0 %

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- **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** Develops readily flammable vapours / 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:**

- **LD/LC50 values that are relevant for classification:**

64742-49-0 Naphtha (petroleum), hydrotreated light

| | | |
|------------|----------|-------------------|
| Oral | LD50 | >2000 mg/kg (rat) |
| Dermal | LD50 | >2000 mg/kg (rat) |
| Inhalative | LC50/4 h | >190 mg/l (rat) |

108-88-3 toluene

| | | |
|------------|----------|-------------------|
| Oral | LD50 | 5000 mg/kg (rat) |
| Dermal | LD50 | 12124 mg/kg (rab) |
| Inhalative | LC50/4 h | 5320 mg/l (mus) |

- **Primary irritant effect:**
- **on the skin:** Irritant for skin and mucous membranes.
- **on the eye:** Irritant effect.
- **Sensitisation:** No sensitizing effect known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
Repr. 2

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish

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- **Additional ecological information:**
- **General notes:**
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Danger to drinking water if even small quantities leak into soil.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Hand over to disposers of hazardous waste.
Incineration under approved, controlled conditions using incinerators suitable or designed for the disposal of hazardous chemical wastes, is the preferred method for disposal.

- **European waste catalogue**

| | |
|-----------|--|
| 08 04 09* | waste adhesives and sealants containing organic solvents or other dangerous substances |
|-----------|--|

- **Uncleaned packagings:** S 60 is only applicable for liquid or unreacted materials.
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|--|---|
| <ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA | UN1133 |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG · IATA | 1133 ADHESIVES, ENVIRONMENTALLY HAZARDOUS ADHESIVES (HEXANES, zinc oxide), MARINE POLLUTANT ADHESIVES |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, IMDG, IATA · Class · Label | 3 Flammable liquids. 3 |
| <ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA | II |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR): | Product contains environmentally hazardous substances: zinc oxide, Naphtha (petroleum), hydrotreated light Yes Symbol (fish and tree) Symbol (fish and tree) |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user | Warning: Flammable liquids. |

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| | |
|---|---|
| · Kemler Number: | 33 |
| · EMS Number: | F-E,S-D |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| · ADR | |
| · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · Transport category | 2 |
| · Tunnel restriction code | D/E |
| · IMDG | |
| · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · Remarks: | Suitable UN approved container necessary. |
| · IATA | |
| · Remarks: | Suitable UN approved container necessary. |
| · UN "Model Regulation": | UN1133, ADHESIVES, 3, II, ENVIRONMENTALLY HAZARDOUS |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Other regulations, limitations and prohibitive regulations**
- **VOC (EU) in %:** 81.51 %
- **VOC (EU) in g/l:** 670.5 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

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.

The information provided about the product on this Safety Sheet has been compiled from knowledge of the individual constituent.

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

- **Relevant phrases**
- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

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- H336 May cause drowsiness or dizziness.
- H350 May cause cancer.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

- **Department issuing data sheet:** Anwendungstechnik
- **Contact:** Dr. Florian Kopp, Bereich Chemie, Tel.: +49 (0)8106/2421-17
- **Abbreviations and acronyms:**

RID: Règlement 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 Organisation

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

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Carc. 1B: Carcinogenicity, Hazard Category 1B

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

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

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Annex: Exposure scenario 1

- **Short title of the exposure scenario**

Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich
Industrial Application: adhesives, coatings

- **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 Use in closed process, no likelihood of exposure

PROC2 Use in closed, continuous process with occasional controlled exposure

PROC3 Use in closed batch process (synthesis or formulation)

PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises

PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)

PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

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

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

PROC10 Roller application or brushing

PROC13 Treatment of articles by dipping and pouring

PROC14 Production of preparations or articles by tableting, compression, extrusion, pelletisation

PROC15 Use as laboratory reagent

- **Environmental release category**

ERC4 Industrial use of processing aids in processes and products, not becoming part of articles

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

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

- **Conditions of use** Use at not higher than 20 °C above the ambient temperature is assumed

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

- **Worker** 8hrs (full working shift).

- **Environment**

Continuous release. - Emission Days (days/year): 20

Local freshwater dilution factor: 10

Local marine water dilution factor: 100

Do not allow contact to soil, surface water and ground water.

The product must not enter the sewage system or the aquatic environment.

- **Physical parameters**

- **Physical state** Fluid

- **Concentration of the substance in the mixture** The substance is main component.

- **Used amount per time or activity** 850 annual tons per plant

- **Other operational conditions**

- **Other operational conditions affecting environmental exposure**

Use only on hard ground.

Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.

- **Other operational conditions affecting worker exposure**

Avoid contact with the skin.

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.

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- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures**
Provide explosion-proof electrical equipment.
Use product only in enclosed systems.
Ensure that suitable extractors are available on processing machines
- **Personal protective measures**
Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
Solvent resistant gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Environmental protection measures**
- **Air** Avoid emissions to the air
- **Water** Do not allow to reach sewage system.
- **Soil** Prevent contamination of soil.
- **Disposal measures**
Ensure that waste is collected and contained.
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**
- **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**
A downstream user may evaluate whether he operates within the conditions set in the exposure scenario by using the information provided in sections above. This evaluation may be based on an expert judgement or on the utilisation of risk assessment tools that are recommended by ECHA.HA.

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Annex: Exposure scenario 2

toluene

- **Short title of the exposure scenario**
- **Sector of Use**
 - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 - SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
- **Product category** PC1 Adhesives, sealants
- **Process category**
 - PROC1 Use in closed process, no likelihood of exposure
 - PROC2 Use in closed, continuous process with occasional controlled exposure
 - PROC3 Use in closed batch process (synthesis or formulation)
 - PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises
 - PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
 - PROC7 Industrial spraying
 - PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
 - PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
 - PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
 - PROC13 Treatment of articles by dipping and pouring
 - PROC10 Roller application or brushing
 - PROC15 Use as laboratory reagent
- **Environmental release category**
 - ERC4 Industrial use of processing aids in processes and products, not becoming part of articles
- **Description of the activities / processes covered in the Exposure Scenario**

Covers the use in coatings (paints, inks, adhesives, etc) within closed or contained systems including incidental exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application activities and film formation) and equipment cleaning, maintenance and associated laboratory activities.
- **Conditions of use** Use at not higher than 20 °C above the ambient temperature is assumed
- **Duration and frequency**
 - 5 workdays/week.
 - 8hrs (full working shift).
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Used amount per time or activity** 300 annual tons per plant
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting worker exposure**
 - Avoid contact with the skin.
 - 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.

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· Technical protective measures

- Keep away from heat and direct sunlight.
- 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 must strictly avoid inhalation or contact with the skin.
- Use skin protection cream for preventive skin protection.
- Solvent resistant gloves
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Measures for consumer protection

- Ensure adequate labelling.
- Keep locked up and out of the reach of children.

· Environmental protection measures

- Air** Avoid emissions to the air
- Water** Do not allow to reach ground water, water bodies or sewage system.
- Soil** Prevent contamination of soil.
- 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**

- 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.

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