

Safety data sheet

according to 1907/2006/EC, Article 31


Printing date 17.03.2017

Revision: 17.03.2017


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

- **1.1 Product identifier**
- **Trade name:** beko Tackcon Primer
- **Article number:** 240 310 250
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **1.2.1 Relevant identified uses**
- **Sector of Use**
 SU3 Industrial uses: uses of substances as such or in preparations at industrial sites
 SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC1 Adhesives, sealants
- **Process category** PROC4 Chemical production where opportunity for exposure arises
- **Environmental release category** ERC5 Use at industrial site leading to inclusion into/onto article
- **Application of the substance / the preparation :** Primer for adhesive or sealant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 beko GmbH
 Rappenfeldstr. 5
 DE-86653 Monheim
 Tel. +49 (0) 9091 90898-0
 Fax +49 (0) 9091 90898-29
 e-mail: info@beko-group.com
 Internet: www.beko-group.com
- **Information department:** Laboratory
- **1.4 Emergency telephone number:** Poison Control Center Mainz - phone: +49 (0) 6131/19240

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.
 Eye Irrit. 2 H319 Causes serious eye irritation.
 Skin Sens. 1 H317 May cause an allergic skin reaction.
 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
- **Signal word** Danger
 - **Hazard-determining components of labelling:**
 methylethylketone
 Polyisocyanate based on hexamethylene diisocyanate and tolylene diisocyanate
 1,6-hexamethylene diisocyanate homopolymer

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- **Hazard statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

- **Precautionary statements**

P261 Avoid breathing vapours.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents and container in accordance with local regulations.

- **Advised precautionary statements** P102 Keep out of reach of children.

- **Additional information :**

Contains isocyanates. May produce an allergic reaction.

- **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:** Mixture of polyisocyanates in organic solution

- **Dangerous components:**

CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	methylethylketone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	40-60%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46	ethyl acetate ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	10-20%
CAS: 26426-91-5	Polyisocyanate based on hexamethylene diisocyanate and tolylene diisocyanate ⚠ Skin Sens. 1, H317	5-15%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	5-10%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226	< 2.5%
CAS: 28182-81-2 Reg.nr.: 01-2119485796-17	1,6-hexamethylene diisocyanate homopolymer ⚠ Acute Tox. 4, H332; ⚠ Skin Sens. 1, H317; STOT SE 3, H335	< 2.5%

- **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** Immediately remove any clothing soiled by the product.

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- **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. Then consult a doctor.
- **After swallowing** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
Headache
Dizziness
Gastric or intestinal disorders.
Drowsiness
Breathing difficulty
- **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** CO₂, extinguishing powder or water spray.
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
Hydrogen chloride (HCl)
Nitrogen oxides (NO_x)
In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Hydrogen cyanide (HCN)
Isocyanates
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Keep away from ignition sources.
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **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.
Send for recovery or disposal in suitable receptacles.
Do not close them (reaction with water forming carbon dioxide).
- **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.

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Open and handle receptacle with care
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- **Information about protection against explosions and fires:**
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.
Prevent any seepage into the ground.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **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:**

78-93-3 methylethylketone

WEL	Short-term value: 899 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm Sk, BMGV
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141-78-6 ethyl acetate

WEL	Short-term value: 400 ppm Long-term value: 200 ppm
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123-86-4 n-butyl acetate

WEL	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
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108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
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- **Ingredients with biological limit values:**

78-93-3 methylethylketone

BMGV	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one
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- **Additional information:** The lists that were valid during the creation were used as basis.

8.2 Exposure controls

- **Personal protective equipment**
- **General protective and hygienic measures**
Wash hands before breaks and at the end of work.
Immediately remove all soiled and contaminated clothing.

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Do not inhale gases / fumes / aerosols.
Do not eat, drink, smoke while working.
Avoid contact with the eyes and skin.

· **Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Short term filter device:

Filter AB

· **Protection of hands:**

PVA gloves of superior quality.

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.

· **Eye protection:** Tightly sealed goggles.

· **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 yellow
Odour:	without

· **Change in condition**

Melting point/freezing point:	undetermined
Initial boiling point and boiling range:	79 °C

Flash point:	- 9 °C ISO 1523
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Self-ignition temperature:	> 200 °C
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Decomposition temperature:	> 120 °C
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Self igniting:	Product is not selfigniting at room temperature.
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Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible
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· **Explosion limits:**

Lower:	1.7 Vol %
Upper:	11.5 Vol %

Density at 20 °C:	0.92
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Solubility in / Miscibility with Water:	Partly miscible
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· **Viscosity:**

dynamic at 20 °C:	50 mPa.s
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· **9.2 Other information** No further relevant information available.

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· Volatile organic compounds (VOC) : 75 %

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 according to specifications.
- **10.3 Possibility of hazardous reactions**
Reacts with alcohols, amines, aqueous acids and alkalis.
Reacts with strong oxidising agents.
Reacts with water forming carbon dioxide. Danger of receptacles bursting because of vapour overpressure.
- **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:**

78-93-3 methylethylketone

Oral	LD50	3300 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rbt)

141-78-6 ethyl acetate

Oral	LD50	4935 mg/kg (rbt)
Inhalative	LC50/4 h	1600 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Frequent or prolonged contact may irritate and cause dermatitis.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **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:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.

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- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Other information:** -
- **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 course 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.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must be disposed of in an incinerator for hazardous waste according to official regulations.
- **Waste disposal key:** 08 04 09*
- **Uncleaned packaging :**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

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|---|--|
| <ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA | UN1866 |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG, IATA | 1866 RESIN SOLUTION (vapour pressure at 50 °C not more than 110 kPa)
RESIN SOLUTION |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, IMDG, IATA | <div style="text-align: center;">  </div> |
| <ul style="list-style-type: none"> · 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: | No |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category | Warning: Flammable liquids.
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F-E, S-E
B |

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· 14.7 Transport in bulk according to Annex II of Marpol 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
· 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
· UN "Model Regulation":	UN 1866 RESIN SOLUTION (VAPOUR PRESSURE AT 50 °C NOT MORE THAN 110 KPA), 3, II

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **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
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 20
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This data sheet is particularly in accordance with the european regulations 1907/2006/EC, 1272/2008/EC and their amendments ; it is written according to annex II of the european regulation 830/2015/EC.

- **Relevant phrases**
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.

- **Department issuing SDS:** Laboratory
- **Contact:** cf. § 1
- **Review :**

An asterisk in the margin of a paragraph means amendments in comparison to the former version.

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· 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

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

Skin Sens. 1: Skin sensitisation – Category 1

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

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Annex: Exposure scenario 1

- **Name** methylethylketone
- **Short title of the exposure scenario**
Industrial use for rigid foam, coatings and adhesives and sealants
Professional end use in rigid foam, coatings, adhesives and sealants and other composite material
Consumer end use in rigid foam, coatings and adhesives and sealants
- **Sector of Use**
 SU3 Industrial uses: uses of substances as such or in preparations at industrial sites
 SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 SU21 Consumer uses: Private households / general public / consumers
- **Product category**
 PC1 Adhesives, sealants
 PC9a Coatings and paints, thinners, paint removers
- **Process category**
 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)
 PROC10 Roller application or brushing
 PROC11 Non industrial spraying
 PROC13 Treatment of articles by dipping and pouring
 PROC19 Manual activities involving hand contact
- **Environmental release category**
 ERC2 Formulation into mixture
 ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
 ERC5 Use at industrial site leading to inclusion into/onto article
 ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
 ERC8c Widespread use leading to inclusion into/onto article (indoor)
 ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
 ERC8f Widespread use leading to inclusion into/onto article (outdoor)
- **Conditions of use** According to directions for use.
- **Duration and frequency**
SU21, PC1 (adhesives, sealants) :
Leisure adhesives PC1 :
 Concentrations up to 30 %
 365 days/year
 up to 4 hour(s) per day
 Exposed skin surface : 35.73 cm²
 Amounts used/applied per event : 9 g
 Room volume : > 20 m³
Do-it-yourself adhesives PC1 :
 Concentration of substance in product : up to 30 %
 Up to 6 h per day, 1 days per year
 Exposed skin surface : 110 cm²
 Amounts used/applied per event : 6390 g
 Room volume : > 20 m³
 Provide good general ventilation (at least 0.6 air change(s) per hour)
Sealing products PC1 :
 Concentration of substance in product : up to 20 %
 365 days/year

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*Exposed skin surface : 35.73 cm²**Amounts used/applied per event : 75 g**1 hour(s)/day**Room volume : > 34 m³**Provide good general ventilation (at least 0.6 air change(s) per hour)**SU21,PC9a (coatings and paintings,solvents, thinners) :**Concentration of substance in product : up to 50 %**3 days/year**Up to 2 h per day**Exposed skin surface : 857.5 cm²**Amounts used/applied per event : 491 g**Room volume : > 20 m³**Provide good general ventilation (at least 0.6 air change(s) per hour)***· Physical parameters****· Physical state** Fluid**· Concentration of the substance in the mixture***SU22 :**Weight fraction substance in the product (when used as cleaning agent PROC 10) : up to maximum of 25 %**Weight fraction substance in the product (when used as cleaning agent with low-pressure cleaning equipment PROC 10) : up to maximum of 5 %**Weight fraction substance in the product (when used as cleaning agent with high-pressure cleaning equipment PROC 11) : up to maximum of 1 %***· Other operational conditions****· Other operational conditions affecting environmental exposure***Observe section 6 of the Safety Data Sheet (Accidental release measures).***· 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.**Ensure adequate ventilation, especially in closed rooms.***· 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***Application temperature : room temperature***· Risk management measures****· Worker protection***Do not eat, drink, smoke while working.**SU3 :**Avoid direct contact with skin. Identify potential areas for indirect contact with the skin. Wear gloves (EN 374) if there is a risk of contact of the substance with the skin. Remove impurities / quantities immediately after spilling. Wash skin immediately after handling. Complete basic training of personnel, so that exposure is minimized and eventually the skin problems are reported. Other measures of skin protection are required, such as waterproof clothing and a protective mask during activities with high spread, leading to the likely significant release of aerosols (e.g. spraying).**Mixing operations (closed systems) : provide adequate general ventilation (not less than 3 to 5 air changes per hour).**Preparation of material for application / blending operations (open systems) : provide adequate controlled ventilation (10 to 15 air changes per hour).**Spray (automatic / robotic) : carry out in ventilated booth with laminar air flow.**Spray : ensure an adequate controlled ventilation (10 to 15 air changes per hour). Wear a respiratory protection (standard EN 140 with Type A filter or better).**Roller coating, spraying and flow coating : provide additional ventilation where emissions occur.**Storage with occasional controlled exposure : store substance in a closed system.**SU 22 :**Avoid direct contact with skin. Identify potential areas for indirect contact with the skin. Wear gloves (EN 374) if there is a risk of contact of the substance with the skin. Remove impurities / quantities*

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immediately after spilling. Wash skin immediately after handling. Complete basic training of personnel, so that exposure is minimized and eventually the skin problems are reported. Other measures of skin protection are required, such as waterproof clothing and a protective mask during activities with high spread, leading to the likely significant release of aerosols (e.g. spraying).

Preparation of material for indoor application : provide adequate controlled ventilation (10 to 15 air changes per hour); avoid activities with more than 1 hour exposure.

Preparation of material for outdoor application : ensure that exploitation takes place outdoors ; avoid activities with more than 1 hour exposure.

Indoor roller coating, spraying and flow coating : ensure adequate controlled ventilation (10 to 15 air changes per hour) ; wear respiratory protection (standard EN 140 with Type A filter or better).

Outdoor roller coating, spray and flow coating : ensure that the operation takes place outdoors, wear respiratory protection (standard EN 140 with Type A filter or better).

Indoor spraying : carry out in ventilated booth with laminar air flow.

Outdoor spraying : ensure that the operation takes place outdoors ; avoid activities with more than 4 hours exposure ; wear a full face respirator according to standard EN136 with Type A filter or better.

Cleaning and maintenance of equipment : extinguish systems before opening and maintenance of equipment ; avoid activities with more than 4 hours exposure.

Storage with occasional controlled exposure : store substance in a closed system ; ensure an adequate controlled ventilation (10 to 15 air changes per hour).

- **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.

Tightly sealed goggles.

Avoid contact with the eyes.

- **Measures for consumer protection**

Ensure adequate labelling.

Protective gloves

Tightly sealed goggles.

Keep locked up and out of the reach of children.

- **Environmental protection measures**

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

- **Water** *Do not allow to reach ground water, water bodies or sewage system.*

- **Soil** *Prevent contamination of soil.*

- **Notes** *In case of unintended release of the product: See section 6 of the Safety Data Sheet.*

- **Disposal measures** *Disposal must be made according to official regulations.*

- **Disposal procedures** *Product residues are incinerated as special waste.*

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Annex: Exposure scenario 2

- **Short title of the exposure scenario**

Industrial use for rigid foam, coatings and adhesives and sealants

Professional end use in rigid foam, coatings, adhesives and sealants and other composite material

Consumer end use in rigid foam, coatings and adhesives and sealants

- **Sector of Use**

SU3 Industrial uses: uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

- **Product category**

PC1 Adhesives, sealants

PC9a Coatings and paints, thinners, paint removers

- **Process category PROC4 Chemical production where opportunity for exposure arises**

- **Environmental release category ERC5 Use at industrial site leading to inclusion into/onto article**

- **Conditions of use** According to directions for use.

- **Duration and frequency**

SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 :

1-4 hour(s)/day

> 4 days /week

< 240 days/year

SU22 / PROC8a, PROC8b, PROC10, PROC11, PROC19 :

up to 1 hour(s) per day

Up to > 4 days / week, < 300 days / year

Exposed skin surface (hands and forearms) up to 1 500 cm²

SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 :

Exposed skin surface (hands) up to 960 cm²

- **Physical parameters**

- **Physical state** Fluid

- **Concentration of the substance in the mixture**

SU21 / PC9a / ERC8a :

Maximum weight fraction of the substance in the product (in liquid form) : 25 %

- **Other operational conditions**

- **Other operational conditions affecting environmental exposure**

Observe section 6 of the Safety Data Sheet (Accidental release measures).

- **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.

Ensure adequate ventilation, especially in closed rooms.

Avoid contact with eyes.

- **Other operational conditions affecting consumer exposure**

SU21, PC9a, ERC8a :

Keep out of the reach of children.

Spray application : maximum use time : 15 min (maximum 0.5 g/s)

Roller or brush application (solvent rich mixture) : maximum 300 g

Non-spray applications : 132 min per event

Frequency of use : maximum 5 times per year

Room air ventilation factor :

in case of brush or roller application : 0.6

in case of spray application : 1.5

Minimum room volume (when indoors) : 20 m³

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

Application temperature : room temperature

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- **Risk management measures**

- **Worker protection**

Avoid direct contact with skin. Wear suitable tested to EN 374 during the activities where skin contact is possible.

Do not eat, drink, smoke while working.

- **Organisational protective measures**

Ensure good ventilation. This can be achieved by using a local exhaust 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.

Spray application

SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 :

Local exhaust ventilation in case of indoor use : efficiency > 95 %.

Do not carry out operation for more than 1 hour without respiratory protection (PPE).

Non-spray application

SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 :

Local exhaust ventilation in case of indoor use : efficacy > 95 %

Ensure an adequate controlled ventilation (5 to 15 air changes per hour). Provide additional ventilation where emissions occur.

Do not exceed normal working hours per worker.

Ensure that activities are executed by specialists or authorised personnel only.

- **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.

Tightly sealed goggles.

Avoid contact with the eyes.

Protective work clothing.

- **Measures for consumer protection**

Ensure adequate labelling.

Protective gloves

Tightly sealed goggles.

Keep locked up and out of the reach of children.

- **Environmental protection measures**

Application by spraying

SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 (estimation based on l'Ectoc TRA, model v2) :

Release times per year : up to 300 day(s)/year

Amount used locally : 333 kg/d maximum

Non-spray application

SU3 / PROC5, PROC8a, PROC8b / ERC4 (estimation based on l'Ectoc TRA, model v2) :

Release times per year : up to 300 day(s)/year

Amount used locally : 1800 kg/d maximum

SU21, PC9a, ERC8a (estimation based on l'Ectoc TRA, model v2) :

Release times per year : up to 365 day(s)/year

Amount used locally : 0.3 kg/d maximum

- **Air**

Application by spraying

SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 (estimation based on l'Ectoc TRA, model v2) :

Local release to air : 60 kg/d maximum

Non-spray application

SU3 / PROC5, PROC8a, PROC8b, PROC10, PROC13 / ERC4 (estimation based on l'Ectoc TRA, model v2) :

Local release to air : 165 kg/d maximum

SU21, PC9a, ERC8a (estimation based on l'Ectoc TRA, model v2) :

Local release to air : 0.27 kg/d maximum

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- **Water**

- SU3 :

- Size of the sewage treatment plant : > 2.000 m³/day

- Dégradation efficiency : > 90 %

- SU21 :

- Size of the sewage treatment plant : > 2 000 m³/day

- Dégradation efficiency : > > 70 %

- Application by spraying

- SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 (estimation based on l'Ecetoc TRA, model v2) :

- Local release to waste water : 6.7 kg/d maximum

- Non-spray application

- SU3 / PROC5, PROC8a, PROC8b, PROC10, PROC13 / ERC4 (estimation based on l'Ecetoc TRA, model v2) :

- Local release to waste water : 36.7 kg/d maximum

- SU21, PC9a, ERC8a :

- Local release to waste water : 0.27 kg/d maximum

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

- **Soil**

- Application by spraying

- SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 (estimation based on l'Ecetoc TRA, model v2) :

- Maximum local release to soil : 0.3 kg/d

- Non-spray application

- SU3 / PROC5, PROC8a, PROC8b, PROC10, PROC13 / ERC4 (estimation based on l'Ecetoc TRA, model v2) :

- Maximum local release to soil : 1.8 kg/d

- SU21, PC9a, ERC8a :

- Maximum local release to soil : 0 kg/d

- Prevent contamination of soil.

- **Disposal measures**

- Disposal must be made according to official regulations.

- Ensure that waste is collected and contained.

- **Disposal procedures**

- Product residues are incinerated as special waste.

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

- **Exposure estimation**

- **Environment**

- Application by spraying

- SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 :

- Predicted environmental concentrations (PECs)

- In sewage treatment plant (STP) : 0.393 mg/l

- In local freshwater : 0.042 mg/l

- In local freshwater sediment : 0.056 mg/kg

- In local soil : 0.010 mg/kg

- In local marine water : 0.004 mg/l

- In local marine sediment : 0.005 mg/kg

- Total daily intake via local environment : 0.0015 mg/kgdw/d

- Risk characterization ratios (RCRs)

- In sewage treatment plant (STP) : < 0.001

- In local freshwater : 0.162

- In local freshwater sediment : 0.200

- In local soil : 0.033

- In local marine water : 0.162

- In local marine sediment : 0.019

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*Total daily intake via local environment : < 0.001**Dermal exposure estimate : 0.034**Inhalation exposure estimate : 0.075**Combined exposure estimate : 0.159**Non-spray application**SU3 / PROC5, PROC8a, PROC8b, PROC10, PROC13 / ERC4 (estimation based on l'Ecetoc TRA, model v2) :**Predicted environmental concentrations (PECs)**In sewage treatment plant (STP) : 1.426 mg/l**In local freshwater : 0.145 mg/l**In local freshwater sediment : 0.193 mg/kg**In local soil : 0.056 mg/kg**In local marine water : 0.014 mg/l**In local marine sediment : 0.019 mg/kg**Total daily intake via local environment : 0.006 mg/kgdw/d**Risk characterization ratios (RCRs)**In sewage treatment plant (STP) : 0.002**In local freshwater : 0.559**In local freshwater sediment : 0.690**In local soil : 0.181**In local marine water : 0.559**In local marine sediment : 0.069**Total daily intake via local environment : 0.004**Dermal exposure estimate : 0.022**Inhalation exposure estimate : 0.075**Combined exposure estimate : 0.146**SU21, PC9a, ERC8a :**Predicted environmental concentrations (PECs)**In sewage treatment plant (STP) : 0.0161 mg/l**In local freshwater : 0.004 mg/l**In local freshwater sediment : 0.0059 mg/kg**In local soil : 0.0001 mg/kg**In local marine water : 0.0004 mg/l**In local marine sediment : 0.0005 mg/kg**Total daily intake via local environment : 0.0001 mg/kgdw/d**Risk characterization ratios (RCRs)**In sewage treatment plant (STP) : < 0.001**In local freshwater : 0.017**In local freshwater sediment : 0.021**In local soil : < 0.001**In local marine water : 0.017**In local marine sediment : 0.002**Total daily intake via local environment : < 0.001**Inhalation mean event concentration : 0.97**Inhalation acute internal dose : 0.33**SU22 / PROC1, PROC2, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC19 / ERC8a, ERC8d**Predicted environmental concentrations (PECs)**In sewage treatment plant (STP) : 1.369 mg/l**In local freshwater : 0.139 mg/l**In local freshwater sediment : 0.186 mg/kg**In local soil : 0.0002 mg/kg**In local marine water : 0.014 mg/l**In local marine sediment : 0.018 mg/kg*

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*Total daily intake via local environment : 0.003 mg/kgdw/d**Risk characterization ratios (RCRs)**In sewage treatment plant (STP) : 0.002**In local freshwater : 0.537**In local freshwater sediment : 0.663**In local soil : < 0.001**In local marine water : 0.537**In local marine sediment : 0.066**Total daily intake via local environment : < 0.001**Dermal exposure estimate : 0.45**Inhalation exposure estimate : 0.30**Combined exposure estimate : 0.95**· **Consumer** Not relevant for this Exposure Scenario.**· **Guidance for downstream users****For the risk assessment, the tools recommended by ECHA can be used.*

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