

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.02.2023

Version number 8 (replaces version 7)


Revision: 09.02.2023

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


- 1.1 Product identifier
- Trade name: **KEMPERDUR Deko transparent**
- UFI: APK6-T08E-V00J-TUC9
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
 - Identified use: intended for professional use only!
- Application of the substance / the mixture: Coating
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: KEMPER SYSTEM GmbH & Co. KG
Holländische Strasse 32-36
34246 Vellmar
Deutschland / Germany
Telefon: +49 (0)561 / 8295-0
Telefax: +49 (0)561 / 8295-5110
E-Mail: MSDS@KEMPER-SYSTEM.COM
- Further information obtainable from: research & development
- 1.4 Emergency telephone number: Medical Emergency information in case of poisoning:
Poison Information Center Mainz - 24 h - Phone: +49 (0) 6131 19240
(advisory service in German or English language)

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
 - Flam. Liq. 3 H226 Flammable liquid and vapour.
 - Acute Tox. 4 H332 Harmful if inhaled.
 - Skin Sens. 1 H317 May cause an allergic skin reaction.
 - Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- 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: Warning
- Hazard-determining components of labelling:
 - aliphatic polyisocyanate
 - 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
 - 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate
 - Isophorondiisocyanate homopolymer
 - Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
 - benzotriazole derivatives
 - 2-ethylhexanal
- Hazard statements
 - H226 Flammable liquid and vapour.
 - H332 Harmful if inhaled.
 - H317 May cause an allergic skin reaction.
 - H412 Harmful to aquatic life with long lasting effects.
- 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.
 - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Additional information: EUH204 Contains isocyanates. May produce an allergic reaction.
As from 24 August 2023 adequate training is required before industrial or professional use.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.

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- vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

- 3.2 Mixtures

- Description: Mixture: consisting of the following components.

- Dangerous components:

CAS: 426822-87-9 EC number: 642-395-8	aliphatic polyisocyanate Skin Sens. 1, H317	50-100%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	≥12.5-<20%
CAS: 140921-24-0 ELINCS: 411-700-4	1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate Skin Sens. 1, H317	10-12.5%
CAS: 53880-05-0 EC number: 931-312-3	Isophorondiisocyanate homopolymer Skin Sens. 1B, H317; STOT SE 3, H335	10-12.5%
EC number: 918-668-5	hydrocarbons, C9, aromatic Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336, EUH066	2.5-10%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336, EUH066	≥0.5-<2.5%
CAS: 4098-71-9 EINECS: 223-861-6	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate Acute Tox. 1, H330; Resp. Sens. 1, H334; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 %	≥0.25-<0.5%
CAS: 123-05-7 EINECS: 204-596-5	2-ethylhexanal Flam. Liq. 3, H226; Repr. 2, H361; Skin Sens. 1B, H317	≥0.1-<0.5%
CAS: 1065336-91-5 EC number: 915-687-0	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate Repr. 2, H361f; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317	≥0.25-<0.5%
ELINCS: 400-830-7	benzotriazole derivatives Aquatic Chronic 2, H411; Skin Sens. 1A, H317	≥0.25-<0.5%

- 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.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Do not leave affected persons unattended.
Personal protection for the First Aider.
Take affected persons out of danger area and lay down.

- After inhalation:

In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.

- After skin contact:

Immediately wash with water and soap and rinse thoroughly.

- After eye contact:

Seek medical treatment in case of complaints.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Protect unharmed eye.

- After swallowing:

If symptoms persist consult doctor.

- 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media

- Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.

- For safety reasons unsuitable extinguishing agents:

Water with full jet

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- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
Nitrogen oxides (NOx)
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Mouth respiratory protective device.
Do not inhale explosion gases or combustion gases.
- **Additional information**
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
Avoid contact with skin and eyes
Keep away from ignition sources.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
Prevent from spreading (e.g. by damming-in or oil barriers).
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Do not flush with water or aqueous cleansing agents
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
- **Further information about storage conditions:**
Store in dry conditions.
Protect from frost.
Recommended storage temperature: 5-30 °C
Store receptacle in a well ventilated area.
- **Storage class:**
3
- **7.3 Specific end use(s)**
No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

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

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

OEL	Short-term value: 550 mg/m ³ , 100 ppm Long-term value: 275 mg/m ³ , 50 ppm Sk, IOELV
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4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

OEL	Long-term value: 0.005 ppm Sens
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- **Regulatory information**
OEL: 2021 CoP for the Safety, Health and Welfare at Work
- **Additional information:**
The lists valid during the making were used as basis.

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<p>- 8.2 Exposure controls</p> <p>- Appropriate engineering controls</p> <p>- Individual protection measures, such as personal protective equipment</p> <p>- General protective and hygienic measures:</p>	<p>No further data; see item 7.</p> <p>Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.</p>
<p>- Respiratory protection:</p>	<p>When used properly and under normal conditions, breathing protection is not required. Use suitable respiratory protective device in case of insufficient ventilation. Filter A/P2 Respiratory protection - Gas filters and combination filters according to (DIN EN 141)</p>
<p>- Hand protection</p>	<div style="display: flex; align-items: center;">  <p>Protective gloves</p> </div> <p>Check protective gloves prior to each use for their proper condition. Only use chemical-protective gloves with CE-labelling of category III. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation After use of gloves apply skin-cleaning agents and skin cosmetics.</p>
<p>- Material of gloves</p>	<p>Recommended materials: Butyl rubber, BR Recommended thickness of the material: ≥ 0.5 mm Penetration time (min.): < 480 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.</p>
<p>- Penetration time of glove material</p>	<p>The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.</p>
<p>- As protection from splashes gloves made of the following materials are suitable:</p>	<p>Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.1 mm Penetration time (min.): < 10</p>
<p>- Eye/face protection</p>	<div style="display: flex; align-items: center;">  <p>Tightly sealed goggles</p> </div> <p>Protective goggles and facial protection - Classification according to EN 166</p>
<p>- Body protection:</p>	<p>protective clothing (EN 13034)</p>

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties	
- General Information	
<p>- Colour:</p> <p>- Odour:</p> <p>- Odour threshold:</p> <p>- Melting point/freezing point:</p> <p>- Boiling point or initial boiling point and boiling range</p> <p>- Flammability</p> <p>- Lower and upper explosion limit</p> <p>- Lower:</p> <p>- Upper:</p> <p>- Flash point:</p> <p>- Decomposition temperature:</p> <p>- pH</p> <p>- Viscosity:</p> <p>- Kinematic viscosity at 20 °C</p> <p>- Dynamic:</p> <p>- Solubility</p> <p>- water:</p> <p>- Partition coefficient n-octanol/water (log value)</p>	<p>Colourless</p> <p>Characteristic</p> <p>Not determined.</p> <p>Undetermined.</p> <p>165 °C</p> <p>Not applicable.</p> <p>Not determined.</p> <p>Not determined.</p> <p>44 °C</p> <p>Not determined.</p> <p>Not determined.</p> <p>106 s (ISO 6 mm)</p> <p>Not determined.</p> <p>Not miscible or difficult to mix.</p> <p>Not determined.</p>

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- Density and/or relative density	
- Density at 20 °C:	1.02 g/cm ³
- Relative density	Not determined.
- Vapour density	Not determined.

- 9.2 Other information	
- Appearance:	
- Form:	Fluid
- Important information on protection of health and environment, and on safety.	
- Auto-ignition temperature:	Product is not selfigniting.
- Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Solvent separation test:	
- VOC (EC)	26.06 %
- Change in condition	
- Evaporation rate	Not determined.

- Information with regard to physical hazard classes	
- Explosives	Void
- Flammable gases	Void
- Aerosols	Void
- Oxidising gases	Void
- Gases under pressure	Void
- Flammable liquids	Flammable liquid and vapour.
- Flammable solids	Void
- Self-reactive substances and mixtures	Void
- Pyrophoric liquids	Void
- Pyrophoric solids	Void
- Self-heating substances and mixtures	Void
- Substances and mixtures, which emit flammable gases in contact with water	Void
- Oxidising liquids	Void
- Oxidising solids	Void
- Organic peroxides	Void
- Corrosive to metals	Void
- Desensitised explosives	Void

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	No dangerous reactions known.
- 10.4 Conditions to avoid	No further relevant information available.
- 10.5 Incompatible materials:	No further relevant information available.
- 10.6 Hazardous decomposition products:	No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008	
- Acute toxicity	Harmful if inhaled.

- LD/LC50 values relevant for classification:

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

Oral	LD50	8,532 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	35.7 mg/l (rat)

140921-24-0 1,6-hexanediyil-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

53880-05-0 Isophorondiisocyanate homopolymer

Oral	LD50	>14,000 mg/kg (rat) (OECD 401)
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hydrocarbons, C9, aromatic

Oral	LD50	>3,492 mg/kg (rat) (OECD 401)
Dermal	LD50	>3,160 mg/kg (rabbit) (OECD 402)

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>3,160 mg/kg (rabbit) (OECD 402)

4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

Inhalative	LC50/4 h	0.05 mg/l (ATE)
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123-05-7 2-ethylhexanal

Oral	LD50	3,730 mg/kg (rat)
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1065336-91-5 Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Oral	LD50	3,230 mg/kg (rat) (OECD-guideline 423)
Dermal	LD50	>3,170 mg/kg (rat) (OECD Guideline 402 (Acute Dermal Toxicity))

benzotriazole derivatives

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **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** Based on available data, the classification criteria are not met.
- **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.
- **11.2 Information on other hazards**

- Endocrine disrupting properties

128-37-0	2,6-di-tert-butyl-p-cresol	List II
540-97-6	Dodecamethylcyclohexasiloxane	List II

SECTION 12: Ecological information**- 12.1 Toxicity****- Aquatic toxicity:****108-65-6 2-methoxy-1-methylethyl acetate**

LC50/96 h	>100 mg/l (oryzias latipes (Ricefish))
	161 mg/l (fis)

140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate

LC50/96 h	316 mg/l (Danio rerio (Zebraabrling)) (OECD 203)
EC50	1.77 mg/l (Bakterien) (activated sludge; ISO 8192-1986 E)
IC50	43 mg/l (DESMODESMUS SUBSPICATUS) (72h; OECD 201)
EC50	193 mg/l (Daphnia magna) (48h; OECD 202)

53880-05-0 Isophorondiisocyanate homopolymer

LC50/96 h	>1.51 mg/l (Cyprinus Carpio) (Richtlinie 67/548/EWG, Anhang V, C.1.)
EC50	>3.36 mg/l (Daphnia magna) (OECD 202)
EC50	>10,000 mg/l (Belebtschlamm) (OECD 209)

hydrocarbons, C9, aromatic

LL 50	9.2 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h; OECD 203)
EL50	2.9 mg/l (Pseudokirchneriella subcapitata) (72h; OECD 201)
	3.2 mg/l (Daphnia magna) (48h; OECD 202)
EC50	>99 mg/l (Belebtschlamm) (10 min.; OECD 209)

64742-95-6 Solvent naphtha (petroleum), light arom.

LL 50	9.2 mg/l (fish) (96h; OECD 203)
EC50	3.2 mg/l (Daphnia magna) (48h; OECD 202)
EC50	2.6 mg/l (Pseudokirchneriella subcapitata) (72h; OECD 201)

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1065336-91-5 Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

EC50	0.42 mg/l (ALGAE) (OECD 201)
LC50	0.9 mg/l /72 h (fish) (OECD 203 (96 hr))

benzotriazole derivatives

NOEC	100 mg/kg (Eisenia fetida/foetida) (56d; OECD 222)
LC50/96 h	2.8 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (OECD 203; ISO 7346; 84/449/EWG,C1 stat.)
EC50	>1,000 mg/l (Belebtschlamm) (3h; OECD 209)
EC50	4 mg/l (Daphnia magna) (48h;)
EC10	10 mg/l (Pseudokirchneriella subcapitata) (72h; OECD 201)
EC50	>100 mg/l (Pseudokirchneriella subcapitata) (72h; OECD 201)
NOEC	0.78 mg/l (Daphnia magna) (21d; OECD 202, Part 2)

- **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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Harmful to aquatic organisms


SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Disposal according to official regulations
- **European waste catalogue**

08 05 01*	waste isocyanates
15 01 10*	packaging containing residues of or contaminated by hazardous substances
17 02 03	plastic

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

SECTION 14: Transport information

- **14.1 UN number or ID number**
 - **ADR, IMDG** Void
 - **IATA** UN1263
 - **14.2 UN proper shipping name**
 - **ADR, IMDG** Void
 - **IATA** PAINT
 - **14.3 Transport hazard class(es)**
 - **ADR, ADN, IMDG**
 - **Class** Void
 - **IATA**
- 
- **Class** 3 Flammable liquids.
 - **Label** 3

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- 14.4 Packing group	
- ADR, IMDG	Void
- IATA	III
- 14.5 Environmental hazards:	
- Marine pollutant:	No
- 14.6 Special precautions for user	Not applicable.
- 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
- UN "Model Regulation":	Void

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, 74

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- REGULATION (EU) 2019/1148

- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

- Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not 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.

The safety data sheet issued is also compliant with the regulation Annex I of Regulation (EU) no. 453/2010 and Annex II of Regulation (EU) no. 2020/878.

- Relevant phrases

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.

- Department issuing SDS: research & development

- Contact: research & development

- Date of previous version: 15.02.2022

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- Abbreviations and acronyms:

ADR: Accord relatif au transport international 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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 1: Acute toxicity – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Skin Sens. 1B: Skin sensitisation – Category 1B
Repr. 2: Reproductive toxicity – Category 2
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- Sources

- www.echa.europa.eu
- www.baua.de

IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance:
- www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp
- www.dguv.de/ifa/gestis/gestis-dnel-liste

- * Data compared to the previous version altered.

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Safety data sheet

according to 1907/2006/EC, Article 31

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Annex: Exposure scenario

<ul style="list-style-type: none"> - Description of the activities / processes covered in the Exposure Scenario - Conditions of use - Duration and frequency - Physical parameters - Physical state - Concentration of the substance in the mixture - Other operational conditions - Other operational conditions affecting environmental exposure - Other operational conditions affecting worker exposure - Other operational conditions affecting consumer exposure - Other operational conditions affecting consumer exposure during the use of the product - Risk management measures - Worker protection - Organisational protective measures - Technical protective measures - Personal protective measures - Measures for consumer protection - Environmental protection measures - Water - Soil - Disposal measures - Disposal procedures - Waste type - Exposure estimation - Consumer 	<p>See section 1 of the annex to the Safety Data Sheet.</p> <p>5 workdays/week.</p> <p>Fluid</p> <p>The substance is main component.</p> <p>Use only on hard ground.</p> <p>Avoid contact with the skin. Avoid long-term or repeated skin contact.</p> <p>No special measures required.</p> <p>Not applicable.</p> <p>No special measures required. Use product only in enclosed systems. Ensure that suitable extractors are available on processing machines Do not inhale gases / fumes / aerosols. Avoid contact with the skin. Protective gloves Check protective gloves prior to each use for their proper condition. Only use chemical-protective gloves with CE-labelling of category III. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation After use of gloves apply skin-cleaning agents and skin cosmetics. Ensure adequate labelling.</p> <p>Do not allow to reach sewage system. Prevent contamination of soil.</p> <p>Ensure that waste is collected and contained. Must not be disposed together with household garbage. Do not allow product to reach sewage system. Partially emptied and uncleaned packaging</p> <p>Not relevant for this Exposure Scenario.</p>
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