

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.12.2015

Version number 2

Revision: 10.12.2015

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

- 1.1 Product identifier  
**COETRANS Top coat silk-matt**
- Trade name:
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
No further relevant information available.
- 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 and Development
- 1.4 Emergency telephone number:  
Gif tinformati onszentrum der Länder Rheinland-Pfalz und Hessen  
Langenbeckstraße 1; Gebäude 601; 55131 Mainz  
Tel. Nr.: +49 (0)6131 / 19 24 0  
Universitätsmedizin der Johannes Gutenberg-Universität Mainz

## SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

- Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS02 GHS07 GHS08 GHS09

- Signal word

Warning

- Hazard-determining components of labelling:

aliphatic polyisocyanate  
hydrocarbons, C9, aromatic  
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)  
Urethane bis Oxazolidine

- Hazard statements

H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H411 Toxic 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.

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P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.  
 EUH204 Contains isocyanates. May produce an allergic reaction.

**- Additional information:****- 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 substances listed below with nonhazardous additions.

**- Dangerous components:**

CAS: 426822-87-9	aliphatic polyisocyanate ⚠ Skin Sens. 1, H317	25-50%
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	12,5-25%
CAS: 59719-67-4 EINECS: 261-879-6	Urethane bis Oxazolidine ⚠ Aquatic Chronic 2, H411; ⚠ Eye Irrit. 2, H319; Skin Sens. 1B, H317	10-12,5%
CAS: 53880-05-0 EC number: 931-312-3	Isophorondiisocyanate homopolymer ⚠ Skin Sens. 1, H317; STOT SE 3, H335	2,5-10%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226	2,5-10%
CAS: 1330-20-7 EINECS: 215-535-7	xylene ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2,5-10%
EC number: 919-446-0	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 1, H372; Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	2,5-10%
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 4, H332	0,5-2,5%
CAS: 26488-60-8 EINECS: 247-735-5	2-ethylhexyl (6-isocyanatoethyl)-carbamate ⚠ Acute Tox. 3, H331; ⚠ Resp. Sens. 1, H334; ⚠ Skin Sens. 1, H317; STOT SE 3, H335	0,5-2,5%
ELINCS: 400-830-7	benzotriazol derivate ⚠ Aquatic Chronic 2, H411; ⚠ Skin Sens. 1, H317	< 0,5%
CAS: 25550-51-0 EINECS: 247-094-1	hexahydromethylphthalic anhydride ⚠ Resp. Sens. 1, H334; ⚠ Eye Dam. 1, H318; ⚠ Skin Sens. 1, H317	< 0,5%
CAS: 4098-71-9 EINECS: 223-861-6	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate ⚠ Acute Tox. 2, 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	< 0,5%
CAS: 41556-26-7 EINECS: 255-437-1	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	< 0,5%

**- SVHC**

25550-51-0 | hexahydromethylphthalic anhydride

**- 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.

**- After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

**- After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

**- After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**- After swallowing:**

If symptoms persist consult doctor.

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

No further relevant information available.

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- 4.3 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

## SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: CO<sub>2</sub>, sand, extinguishing powder. Do not use water. Alcohol resistant foam ABC powder
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture: During heating or in case of fire poisonous gases are produced.
- 5.3 Advice for firefighters
- Protective equipment: Mouth respiratory protective device. Do not inhale explosion gases or combustion gases.

## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away. 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). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents
- 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. Use only in well ventilated areas.
- 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: No special requirements.
- Requirements to be met by storerooms and receptacles: Store away from foodstuffs.
- Information about storage in one common storage facility: Store in dry conditions. Protect from frost. Keep container tightly sealed.
- Further information about storage conditions: No further relevant information available.
- 7.3 Specific end use(s)

## SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- 8.1 Control parameters

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

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

WEL	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 274 mg/m <sup>3</sup> , 50 ppm
Sk	

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<b>1330-20-7 xylene</b>	
WEL	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
<b>100-41-4 ethylbenzene</b>	
WEL	Short-term value: 552 mg/m <sup>3</sup> , 125 ppm Long-term value: 441 mg/m <sup>3</sup> , 100 ppm Sk
<b>4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate</b>	
WEL	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO

**- DNELs**

<b>108-65-6 2-methoxy-1-methylethyl acetate</b>		
Dermal	Long term - systemic effects	153.5 mg/kg (worker)
Inhalative	Long term - systemic effects	275 mg/m <sup>3</sup> (worker)
<b>1330-20-7 xylene</b>		
Dermal	Long term - systemic effects	180 mg/kg (worker)
Inhalative	Acute - systemic effects	289 mg/m <sup>3</sup> (worker)
	Acute - local effects	289 mg/m <sup>3</sup> (worker)
	Long term - systemic effects	77 mg/m <sup>3</sup> (worker)

**- Ingredients with biological limit values:**

<b>1330-20-7 xylene</b>	
BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

**- Additional information:**

The lists valid during the making were used as basis.

**- 8.2 Exposure controls**

**- Personal protective equipment:**

**- General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

**- Respiratory protection:**

Use suitable respiratory protective device when high concentrations are present.  
Not necessary if room is well-ventilated.

**- Protection of hands:**



Protective gloves

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.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**- Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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.

Recommended thickness of the material:  $\geq 0.4$  mm  
Synthetic rubber gloves

**- 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.

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Value for the permeation: Level  $\geq 2$

**- Eye protection:**



Tightly sealed goggles

**- Body protection:**

Protective work clothing

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Impervious protective clothing

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## SECTION 9: Physical and chemical properties

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

#### - General Information

#### - Appearance:

Form:	Fluid
Colour:	According to product specification
- Odour:	Characteristic
- Odour threshold:	Not determined.

- pH-value: Not determined.

#### - Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

- Flash point: 24 °C

- Flammability (solid, gaseous): Not applicable.

#### - Ignition temperature:

Decomposition temperature: Not determined.

- Self-igniting: Product is not selfigniting.

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

#### - Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

- Density at 20 °C: 1.03 g/cm<sup>3</sup>

- Relative density: Not determined.

- Vapour density: Not determined.

- Evaporation rate: Not determined.

- Solubility in / Miscibility with water: Not miscible or difficult to mix.

- Partition coefficient (n-octanol/water): Not determined.

#### - Viscosity:

Dynamic:	Not determined.
Kinematic at 20 °C:	84 s (ISO 6 mm)

#### - Solvent content:

VOC (EC) 38.70 %

- 9.2 Other information: No further relevant information available.

## SECTION 10: Stability and reactivity

- 10.1 Reactivity: No further relevant information available.

#### - 10.2 Chemical stability

#### - Thermal decomposition / conditions to be avoided:

No decomposition if used 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 toxicological effects

#### - Acute toxicity

Based on available data, the classification criteria are not met.

#### - LD/LC50 values relevant for classification:

##### hydrocarbons, C9, aromatic

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

##### 59719-67-4 Urethane bis Oxazolidine

Oral	LD50	>5000 mg/kg (rat)
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Dermal	LD50	>2000 mg/kg (rab)
<b>53880-05-0 Isophorondiisocyanate homopolymer</b>		
Oral	LD50	2000 mg/kg (rat)
Dermal	LD50	>14000 mg/kg (rat)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>		
Oral	LD50	8532 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rat)
Inhalative	LC50/4 h	35.7 mg/l (rat)
<b>1330-20-7 xylene</b>		
Oral	LD50	5251 mg/kg (mouse) 4300 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	6350 mg/l (rat)
<b>Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</b>		
Oral	LD50	>15000 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rat)
<b>100-41-4 ethylbenzene</b>		
Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	17800 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)
<b>26488-60-8 2-ethylhexyl (6-isocyanatoethyl)-carbamate</b>		
Dermal	LD50	> 2.500 mg/kg (rat)
Inhalative	LC50/4 h	3 mg/l (ATE)
<b>benzotriazol derivate</b>		
Oral	LD50	>5000 mg/kg (rat) (unbekannt)
Dermal	LD50	>2000 mg/kg (rat) (unbekannt)
Inhalative	LC50/4 h	>5.8 mg/l (rat) (unbekannt)
<b>25550-51-0 hexahydromethylphthalic anhydride</b>		
Oral	LD50	>5000 mg/kg (rat)
<b>4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate</b>		
Dermal	LD50	>7000 mg/kg (rat) (OECD- Prüfrichtlinie 402)
Inhalative	LC50/4 h	0.5 mg/l (ATE)
<b>41556-26-7 bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate</b>		
Oral	LD50	>2300 mg/kg (rat)

**- Primary irritant effect:****- Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

**- Serious eye damage/irritation**

Causes serious eye irritation.

**- Respiratory or skin sensitisation**

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 respiratory irritation. May cause drowsiness or dizziness.

**- STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**- Aspiration hazard**

Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

**- 12.1 Toxicity****- Aquatic toxicity:**

<b>59719-67-4 Urethane bis Oxazolidine</b>	
EC50/48 h	87.1 mg/l (Daphnia magna)
EC50 / 72h	18.6 mg/l (Selenastrum capricornutum)
<b>53880-05-0 Isophorondiisocyanate homopolymer</b>	
LC50/96 h	>1.51 mg/l (Cyprinus Carpio) (Richtlinie 67/548/EWG, Anhang V, C.1.)
EC50/48 h	>3.36 mg/l (Daphnia magna) (OECD- Prüfrichtlinie 202)
EC50/3h	>10000 mg/l (Belebtschlamm (freshwater)) (OECD- Prüfrichtlinie 209)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
LC50/96 h	>100 mg/l (oryzias latipes (Ricefish)) 161 mg/l (fis)

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<b>1330-20-7 xylene</b>	
LC50/96 h	26.7 mg/l (Pimephales promelas)
IC50/72 h	2.2 mg/l (ALGAE)
<b>Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</b>	
LC50 - OECD203	13100 mg/l (rat)
<b>100-41-4 ethylbenzene</b>	
EC50/48 h	2.1 mg/l (Daphnia magna)
EC50 / 72h	4.6 mg/l (Pseudokirchneriella subcapitata)
LC50 / 48 h	12.1 mg/l (Daphnia magna)
<b>26488-60-8 2-ethylhexyl (6-isocyanatoethyl)-carbamate</b>	
ErC50 - OECD 201	>1 mg/l (DESMODESMUS SUBSPICATUS)
LC50/96 h	>100 mg/l (Danio rerio (Zebraabrling))
EC50/48 h	>100 mg/l (daphnia)
EC50/3h	64 mg/l (Belebtschlamm (freshwater))
<b>4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate</b>	
EC50/48 h	27 mg/l (Daphnia magna) (Richtlinie 67/548/EWG, Anhang V, C.2.)
<b>41556-26-7 bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate</b>	
LC50/96 h	0.97 mg/l (LEPOMUS MACROCHIRUS)
EC50/24h	20 mg/l (daphnia)

- **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
- **Additional ecological information:**
- **General notes:** Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **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 together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**

08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09

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

## SECTION 14: Transport information

- **14.1 UN-Number**
  - **ADR, IMDG, IATA** UN1263
  - **14.2 UN proper shipping name**
  - **ADR** 1263 PAINT, ENVIRONMENTALLY HAZARDOUS
  - **IMDG** PAINT (hydrocarbons, C9, aromatic, Urethane bis Oxazolidine), MARINE POLLUTANT
  - **IATA** Paint
  - **14.3 Transport hazard class(es)**
  - **ADR**
- 

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

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- Label	3
- IMDG	
	
- Class	3 Flammable liquids.
- Label	3
- IATA	
	
- Class	3 Flammable liquids.
- Label	3
- 14.4 Packing group	III
- ADR, IMDG, IATA	
- 14.5 Environmental hazards:	Product contains environmentally hazardous substances: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate
- Marine pollutant:	Yes Symbol (fish and tree)
- Special marking (ADR):	Symbol (fish and tree)
- 14.6 Special precautions for user	Warning: Flammable liquids.
- Danger code (Kemler):	30
- EMS Number:	F-E,S-E
- Stowage Category	A
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- Transport/Additional information:	
- ADR	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- Transport category	3
- Tunnel restriction code	D/E
- IMDG	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- UN "Model Regulation":	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

## 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

E2 Hazardous to the Aquatic Environment  
P5c FLAMMABLE LIQUIDS

- Qualifying quantity (tonnes) for the application of lower-tier requirements

200 t

- Qualifying quantity (tonnes) for the application of upper-tier requirements

500 t

- National regulations:

- Other regulations, limitations and prohibitive regulations

- Substances of very high concern (SVHC) according to REACH, Article 57

25550-51-0 | hexahydromethylphthalic anhydride

- 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

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## 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.

### - Relevant phrases

H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H304 May be fatal if swallowed and enters airways.  
 H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H330 Fatal if inhaled.  
 H331 Toxic if inhaled.  
 H332 Harmful 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.  
 H372 Causes damage to organs through prolonged or repeated exposure.  
 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.  
 H411 Toxic to aquatic life with long lasting effects.

### - Department issuing MSDS:

research & development

### - Contact:

research & development

### - 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)  
 VOC: Volatile Organic Compounds (USA, EU)  
 DNEL: Derived No-Effect Level (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 SVHC: Substances of Very High Concern  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 2: Flammable liquids, Hazard Category 2  
 Flam. Liq. 3: Flammable liquids, Hazard Category 3  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Acute Tox. 2: Acute toxicity, Hazard Category 2  
 Acute Tox. 3: Acute toxicity, Hazard Category 3  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
 Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1  
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
 Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B  
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
 STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1  
 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 - AcuteHazard, 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.