



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP COROPUR COVER RAL

Revision date: 27.06.2022

Product code: 00359-1234

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#### Pictograms:



#### Hazard statements

|      |  |
|------|--|
| H226 | Flammable liquid and vapour.   |
| H331 | Toxic if inhaled.  |
| H315 | Causes skin irritation.  |
| H319 | Causes serious eye irritation.   |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317 | May cause an allergic skin reaction.                                       |
| H335 | May cause respiratory irritation.  |
| 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. |
| P261      | Avoid breathing vapour.  |
| P280      | Wear protective gloves/protective clothing/eye protection/face protection.                     |
| P284      | Wear respiratory protection.   |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                     |
| P342+P311 | If experiencing respiratory symptoms: Call a POISON CENTER/doctor.                             |
| P370+P378 | In case of fire: Use Dry fire-extinguishing substance, Sand to extinguish.                     |
| P233      | Keep container tightly closed.   |
| P403+P235 | Store in a well-ventilated place. Keep cool.   |

#### Special labelling of certain mixtures

|        |  |
|--------|--|
| EUH204 | Contains isocyanates. May produce an allergic reaction.<br>As from 24 August 2023 adequate training is required before industrial or professional use. |
|--------|--|

#### 2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Vapours may form explosive mixture with air.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Aliphatic polyisocyanate



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## Hazardous components

| CAS No      | Chemical name   | Quantity     |                  |             |
|-------------|---|--------------|------------------|-------------|
|             | EC No   | Index No     | REACH No         |             |
|             | GHS Classification  |              |                  |             |
| 105431-79-6 | Aliphatic polyisocyanate prepolymer   |              |                  | 20 - 25 %   |
|             | Skin Sens. 1; H317  |              |                  |             |
| 108-65-6    | 2-Methoxy-1-methylethyl acetate   |              |                  | 10 - 12,5 % |
|             | 203-603-9   | 607-195-00-7 | 01-2119475791-29 |             |
|             | Flam. Liq. 3, STOT SE 3; H226 H336  |              |                  |             |
| 1330-20-7   | Xylene (mixed isomers)  |              |                  | 5 - 10 %    |
|             | 215-535-7   | 601-022-00-9 | 01-2119488216-32 |             |
|             | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H226 H332 H312 H315 H319 H335 H373 H304 H412 |              |                  |             |
| 64742-95-6  | Solvent naphtha (petroleum)   |              |                  | 5 - 10 %    |
|             | 918-668-5   | 649-356-00-4 | 01-2119455851-35 |             |
|             | Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411 EUH066   |              |                  |             |
| 100-41-4    | Ethyl benzene   |              |                  | 1 - 2,5 %   |
|             | 202-849-4   |              | 01-2119489370-35 |             |
|             | Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H225 H332 H373 H304 H412   |              |                  |             |
| 82919-37-7  | Methyl(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate   |              |                  | 1 - 2,5 %   |
|             | 280-060-4   |              |                  |             |
|             | Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410  |              |                  |             |
| 4083-64-1   | 4-isocyanatosulphonyltoluene  |              |                  | 1 - 2,5 %   |
|             | 223-810-8   | 615-012-00-7 | 01-2119980050-47 |             |
|             | Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, STOT SE 3; H315 H319 H334 H335 EUH014   |              |                  |             |
|             | Isophorone diisocyanate, oligomer   |              |                  | 0,5 - 1 %   |
|             | 931-312-3   |              | 01-2119488734-24 |             |
|             | Skin Sens. 1, STOT SE 3; H317 H335  |              |                  |             |
| 4098-71-9   | 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate   |              |                  | 0,5 - 1 %   |
|             | 223-861-6   | 615-008-00-5 | 01-2119490408-31 |             |
|             | Acute Tox. 1, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, Aquatic Chronic 2; H330 H315 H319 H334 H317 H335 H411                                  |              |                  |             |
| 41556-26-7  | Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate  |              |                  | 0,5 - 1 %   |
|             | 255-437-1   |              |                  |             |
|             | Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410  |              |                  |             |
| 162627-17-0 | Fatty acids, C18-unsaturated, dimers, reaction products with N, N-dimethyl-1,3-propanediamine and 1,3-propanediamine  |              |                  | < 0,5 %     |
|             | 605-296-0   |              | 01-2119970640-38 |             |
|             | Skin Sens. 1A; H317   |              |                  |             |

Full text of H and EUH statements: see section 16.

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#### Specific Conc. Limits, M-factors and ATE

| CAS No    | EC No     | Chemical name   | Quantity  |
|-----------|-----------|---|-----------|
|           |           | Specific Conc. Limits, M-factors and ATE  |           |
| 1330-20-7 | 215-535-7 | Xylene (mixed isomers)  | 5 - 10 %  |
|           |           | inhalation: ATE = 11 mg/l (vapours); dermal: ATE = 1100 mg/kg   |           |
| 100-41-4  | 202-849-4 | Ethyl benzene   | 1 - 2,5 % |
|           |           | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists)  |           |
| 4083-64-1 | 223-810-8 | 4-isocyanatosulphonyltoluene  | 1 - 2,5 % |
|           |           | Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100 STOT SE 3; H335: >= 5 - 100  |           |
| 4098-71-9 | 223-861-6 | 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate   | 0,5 - 1 % |
|           |           | inhalation: LC50 = 0,67 mg/l (vapours); inhalation: ATE = 0,005 mg/l (dusts or mists); dermal: LD50 = >7000 mg/kg; oral: LD50 = 4825 mg/kg Resp. Sens. 1; H334: >= 0,5 - 100 Skin Sens. 1; H317: >= 0,5 - 100 |           |

#### Further Information

According to note P to the directive 67/548/EEC, "Solvent naphta (petroleum)" is not to be classified as "carcinogenic" ingredient because a benzene content (EINECS No. 200-753-7) is below 0.1 % by weight.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

- Remove contaminated soaked clothing immediately.
- If you feel unwell, seek medical advice.
- Take away from danger area and lay down affected person.
- In case of the person being unconscious put him/her in a stable side position.

##### After inhalation

- Move to fresh air in case of accidental inhalation of vapours or decomposition products.
- Refer for medical treatment.
- If patient is not breathing, apply artificial respiration.

##### After contact with skin

- Wash off with soap and plenty of water.
- Consult a doctor if skin irritation persists.
- Do not use solvents or thinners.

##### After contact with eyes

- Remove contact lens.
- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Seek medical treatment by eye specialist.

##### After ingestion

- Do not induce vomiting.
- Rinse out mouth and give plenty of water to drink.
- Never give anything by mouth to an unconscious person.
- Summon a doctor immediately.
- Induce vomiting only upon the advice of a physician.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Toxic if inhaled.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause an allergic skin reaction.
- May cause respiratory irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

- Treat symptoms.



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#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

###### **Suitable extinguishing media**

Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water-spray.

###### **Unsuitable extinguishing media**

Full water jet.

##### 5.2. Special hazards arising from the substance or mixture

Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).

Hydrogen cyanide (HCN)

Isocyanates (NCO).

##### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

##### **Additional information**

Cool containers at risk with water spray jet.

The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

Vapours are heavier than air and spread along ground.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

#### SECTION 6: Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

###### **General advice**

Use only explosion-proof equipment.

Ensure adequate ventilation.

Keep away sources of ignition.

Remove persons to safety.

###### **For non-emergency personnel**

Do not breathe vapours.

Avoid contact with skin, eyes and clothing.

###### **For emergency responders**

In case of vapour formation use respirator.

Use personal protective clothing.

##### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Inform competent authority about release into the sewerage, ground or into waters.

##### 6.3. Methods and material for containment and cleaning up

###### **For containment**

Prevent spread over a wide area (e.g. by containment or oil barriers).

###### **For cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

No not container for disposal.

##### 6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Informations for disposal look up chapter 13.

#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

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**Advice on safe handling**

- Keep container tightly closed.
- Keep a good ventilation and air-exhaust at the place of work.
- Vapours are heavier than air and spread along ground.
- Avoid contact with the skin and the eyes.
- When using do not eat, drink or smoke.
- Do not empty container under pressure. No pressure tank!
- Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**Advice on protection against fire and explosion**

- Keep away from heat and sources of ignition.
- Do not smoke.
- Take precautionary measures against static discharges.
- Use only explosion-proof equipment.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

- Keep container tightly closed in a dry, cool and well-ventilated place.
- Pay attention to anti-explosion protection rules.
- Protect from heat and direct solar radiation.
- Storage temperature between 15°C to 30°C

**Hints on joint storage**

- Incompatible with:
  - Oxidizing agents
  - Acids and bases.
  - Water, amines, alcohols

**Further information on storage conditions**

- Keep away from food, drink and animal feeding stuffs.

**7.3. Specific end use(s)**

- Coating component

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

| CAS No    | Substance                                | ppm   | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category      | Origin |
|-----------|--|-------|-------------------|---------------------|---------------|--------|
| 108-65-6  | 2-Methoxy-1-methylethylacetate           | 50    | 275               |                     | TWA (8 h)     |        |
|           |  | 100   | 550               |                     | STEL (15 min) |        |
| 100-41-4  | Ethylbenzene                             | 100   | 442               |                     | TWA (8 h)     |        |
|           |  | 200   | 884               |                     | STEL (15 min) |        |
| -         | Isocyanates (all, as -NCO)               | -     | 0.02              |                     | TWA (8 h)     |        |
|           |  | -     | 0.07              |                     | STEL (15 min) |        |
| 4098-71-9 | Isophorone diisocyanate (IPDI) (as -NCO) | 0.005 | -                 |                     | TWA (8 h)     |        |
| 1330-20-7 | Xylene, mixed isomers                    | 50    | 221               |                     | TWA (8 h)     |        |
|           |  | 100   | 442               |                     | STEL (15 min) |        |

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**Biological limit values**

| CAS No   | Substance     | Parameter                              | Value   | Test material | Sampling time                   |
|----------|---------------|--|---------|---------------|---------------------------------|
| 100-41-4 | Ethyl benzene | Mandelic acid and phenylglyoxylic acid | 0.7 g/g | Creatinine    | End of shift at end of workweek |

**8.2. Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Do not inhale vapours.

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Treat subsequently with skin cream.

Remove and wash contaminated clothing before re-use.

**Eye/face protection**

Tightly fitting goggles (EN 166).

Eye wash bottle with pure water (EN 15154).

**Hand protection**

Protective gloves resistant to chemicals made off nitrile, Minimum coat thickness 0.4 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camatril Velours 730> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

**Skin protection**

Long sleeved clothing (DIN EN ISO 6530)

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                 |                |
|-----------------|----------------|
| Physical state: | Liquid         |
| Colour:         | Various        |
| Odour:          | Characteristic |

pH-Value: n. d.

**Changes in the physical state**

Melting point/freezing point: n. d.

Boiling point or initial boiling point and boiling range: 139 °C (\*)

Sublimation point: n.a.

Softening point: n. d.

Flash point: 50 °C DIN 53213

**Flammability**

Solid/liquid: n.a.

Gas: n.a.

**Test method**

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**Explosive properties**

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated.

|                            |                 |
|----------------------------|-----------------|
| Lower explosion limits:    | 0,96 vol. % (*) |
| Upper explosion limits:    | 8,0 vol. % (*)  |
| Auto-ignition temperature: | 333 °C (**)     |

**Self-ignition temperature**

|                            |       |
|----------------------------|-------|
| Solid:                     | n.a.  |
| Gas:                       | n.a.  |
| Decomposition temperature: | n. d. |

**Oxidizing properties**

Non oxidizing.

|                                 |                        |
|---------------------------------|------------------------|
| Vapour pressure:<br>(at 20 °C)  | 1,29 hPa               |
| Density (at 20 °C):             | 1,31 g/cm <sup>3</sup> |
| Bulk density:                   | n.a.                   |
| Water solubility:<br>(at 20 °C) | Immiscible             |

**Solubility in other solvents**

n. d.

|  |                           |
|--|---------------------------|
| Partition coefficient n-octanol/water: | n. d.                     |
| Viscosity / dynamic:                   | n. d.                     |
| Viscosity / kinematic:<br>(at 40 °C)   | > 20,5 mm <sup>2</sup> /s |
| Flow time:<br>(at 20 °C)               | 130 s 4 DIN 53211         |
| Relative vapour density:               | n. d.                     |
| Evaporation rate:                      | n. d.                     |
| Solvent separation test:               | n. d.                     |
| Solvent content:                       | 30 %                      |

**9.2. Other information**

|                |      |
|----------------|------|
| Solid content: | 70 % |
|----------------|------|

(\*) Xylene (mixed isomers)

(\*\*) 2-Methoxy-1-methylethyl acetate

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Reactions with acids, alkalies and oxidising agents.

Reacts with: Water, amines, alcohols

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

Heating can release vapours which can be ignited.

Vapour/air-mixtures are explosive at intense warming.





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#### **10.5. Incompatible materials**

Strong oxidizing agents  
Strong acids and strong bases  
Water, amines, alcohols

#### **10.6. Hazardous decomposition products**

No hazardous decomposition products known.  
Fire may produce:  
Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>)  
Hydrogen cyanide gas., Isocyanates

### SECTION 11: Toxicological information

#### **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

##### **Acute toxicity**

Toxic if inhaled.  
No toxicological data available.

##### **ATEmix calculated**

ATE (dermal) 11111,1 mg/kg; ATE (inhalation vapour) 40,49 mg/l; ATE (inhalation dust/mist) 0,550 mg/l

##### **Irritation and corrosivity**

Causes skin irritation.  
Causes serious eye irritation.

##### **Sensitising effects**

Contains isocyanates. May produce an allergic reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. (4-isocyanatosulphonyltoluene; 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate) May cause an allergic skin reaction. (Aliphatic polyisocyanate prepolymer; Methyl(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate; Isophorone diisocyanate, oligomer; 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate; Fatty acids, C18-unsaturated, dimers, reaction products with N, N-dimethyl-1,3-propanediamine and 1,3-propanediamine)

##### **Carcinogenic/mutagenic/toxic effects for reproduction**

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

##### **STOT-single exposure**

May cause respiratory irritation.

##### **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.

##### **Additional information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

#### **11.2. Information on other hazards**

##### **Endocrine disrupting properties**

No data available

##### **Other information**

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Inhalation of high concentrations may cause injuries to liver, kidneys and central nervous system.

A longer or repeated contact may lead to irritation of eyes and mucous membranes.

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

With hypersensitive people, reactions as cough or difficulty of breathing may appear even with tiny concentrations of isocyanates; therefore keep room aerated and ventilated.

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#### SECTION 12: Ecological information

##### 12.1. Toxicity

Ecological data are not available.  
Harmful to aquatic life with long lasting effects.

##### 12.2. Persistence and degradability

No data available

##### 12.3. Bioaccumulative potential

No data available

##### 12.4. Mobility in soil

No data available

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

##### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meet the criteria.

##### 12.7. Other adverse effects

Hazard to waters.

##### Further information

Do not flush into surface water or sanitary sewer system.

#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

###### Disposal recommendations

Can be incinerated, when in compliance with local regulations.  
Where possible recycling is preferred to disposal.

###### List of Wastes Code - residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

###### Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.  
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.  
Packaging that cannot be cleaned should be disposed of like the product.

#### SECTION 14: Transport information

##### Land transport (ADR/RID)

###### 14.1. UN number:

UN 1992

###### 14.2. UN proper shipping name:

FLAMMABLE LIQUID, TOXIC, N.O.S. (Xylene (mixed isomers), Isophorone diisocyanate)

###### 14.3. Transport hazard class(es):

3

###### 14.4. Packing group:

III

Hazard label:

3+6.1



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Classification code: FT1  
Limited quantity: 5 L / 30 kg  
Excepted quantity: E1  
Transport category: 3  
Hazard No: 36  
Tunnel restriction code: D/E

#### Inland waterways transport (ADN)

**14.1. UN number:** UN 1992  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, TOXIC, N.O.S. (Xylene (mixed isomers), Isophorone diisocyanate)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3+6.1



Classification code: FT1  
Limited quantity: 5 L / 30 kg  
Excepted quantity: E1

#### Other applicable information (inland waterways transport)

Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

#### Marine transport (IMDG)

**14.1. UN number:** UN 1992  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, TOXIC, N.O.S. (Xylene (mixture of isomers), Isophorone diisocyanate, Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate))  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3+6.1



Marine pollutant: Yes  
Limited quantity: 5 L / 30 kg  
Excepted quantity: E1  
EmS: F-E, S-D

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1992  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, TOXIC, N.O.S. (Xylene (mixture of isomers), Isophorone diisocyanate)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3+6.1



Limited quantity Passenger: 2 L  
Passenger LQ: Y343  
Excepted quantity: E1

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| IATA-packing instructions - Passenger: | 355   |
| IATA-max. quantity - Passenger:        | 60 L  |
| IATA-packing instructions - Cargo:     | 366   |
| IATA-max. quantity - Cargo:            | 220 L |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Handle in accordance with good industrial hygiene and safety practice.

**14.7. Maritime transport in bulk according to IMO instruments**

The transport takes place only in approved and appropriate packaging.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 74, Entry 75

|   |                |
|---|----------------|
| 2010/75/EU (VOC):                                 | 397 g/l        |
| Information according to 2012/18/EU (SEVESO III): | H2 ACUTE TOXIC |
| Additional information:                           | P5c            |

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1,2,4,6,7,9,10,11,12,13,14,15.

**Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
IMDG = International Maritime Code for Dangerous Goods  
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization  
MARPOL = International Convention for the Prevention of Pollution from Ships  
IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

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GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals  
CAS = Chemical Abstract Service  
EN = European norm  
ISO = International Organization for Standardization  
DIN = Deutsche Industrie Norm  
PBT = Persistent Bioaccumulative and Toxic  
vPvB = Very Persistent and very Bio-accumulative  
LD = Lethal dose  
LC = Lethal concentration  
EC = Effect concentration  
IC = Median immobilisation concentration or median inhibitory concentration

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Flam. Liq. 3; H226      | On basis of test data    |
| Acute Tox. 3; H331      | Calculation method       |
| Skin Irrit. 2; H315     | Calculation method       |
| Eye Irrit. 2; H319      | Calculation method       |
| Resp. Sens. 1; H334     | Calculation method       |
| Skin Sens. 1; H317      | Calculation method       |
| STOT SE 3; H335         | Calculation method       |
| Aquatic Chronic 3; H412 | Calculation method       |

**Relevant H and EUH statements (number and full text)**

|        |  |
|--------|--|
| 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.                                       |
| 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.   |
| 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.                           |
| H412   | Harmful to aquatic life with long lasting effects.                         |
| EUH014 | Reacts violently with water.   |
| EUH066 | Repeated exposure may cause skin dryness or cracking.                      |
| EUH204 | Contains isocyanates. May produce an allergic reaction.                    |

**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal



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warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*