



## Safety Data Sheet 385941 - CTN52 - Catalizzatore

Safety Data Sheet dated 20/12/2017, version 27

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

1.1. Product identifier

Mixture identification:

Trade name: CTN52 - Catalizzatore

Trade code: 385941

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Surface coating

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1.3. Details of the supplier of the safety data sheet

Company:

Sirca S.p.A.

Address:

Viale Roma, 85  
35010 S. Dono di Massanzago (PD) - ITALY  
Tel. +39 0499322311

Competent person responsible for the safety data sheet:

safety@sirca.it

1.4. Emergency telephone number

National Poisons Information Service - Medical Center Chaim Shiba - Tel Ha' shomer - Phone

+972 - 3 - 5303030

Sirca S.p.A. +39 049 9322311 (08.00 - 17.00) From Monday to Friday

### SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

- ⚠ Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
  - ⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.
  - ⚠ Warning, Skin Sens. 1, May cause an allergic skin reaction.
  - ⚠ Warning, STOT SE 3, May cause respiratory irritation.
  - ⚠ Warning, STOT SE 3, May cause drowsiness or dizziness.
- EUH066 Repeated exposure may cause skin dryness or cracking.

Adverse physicochemical, human health and environmental effects:

No other hazards known

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

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H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

#### Precautionary statements:

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

P240 Ground/bond container and receiving equipment.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P370+P378 In case of fire: Use CO<sub>2</sub>, Foam, Chemical powders to extinguish.

#### Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH204 Contains isocyanates. May produce an allergic reaction.

#### Contains

ethyl acetate

Hesamethylene diisocyanate, oligomerisation product (biuret type).

n-butyl acetate

xylene [isomer mixture]

hexamethylene-di-isocyanate: May produce an allergic reaction.

#### Special provisions according to Annex XVII of REACH and subsequent amendments:

None

#### 2.3. Other hazards

This product contains isocyanates. Producer's specifications are as follows: ready-to-use paints containing isocyanates may irritate mucosae, particularly those of the respiratory system, and may give rise to hypersensitivity reactions. Vapour or aerosol inhalation may lead to sensitization. Please take all the measures used for all solvent-containing paints while manipulating isocyanate-containing paints. Avoid vapour and aerosol inhalation. People with allergic or asthmatic precedents or subject to respiratory disorders should not handle paints containing isocyanates.

#### Other Hazards:

No other hazards known

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## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

>= 25% - < 48% ethyl acetate

REACH No.: 01-2119475103-46-xxxx, Index number: 607-022-00-5, CAS: 141-78-6, EC: 205-500-4

⚠ 2.6/2 Flam. Liq. 2 H225

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.8/3 STOT SE 3 H336

EUH066

>= 25% - < 48% Hesamethylene diisocyanate, oligomerisation product (biuret type).

REACH No.: 01-2119970543-34-xxxx, CAS: 28182-81-2, EC: 939-340-8

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- ⚠ 3.1/4/Inhal Acute Tox. 4 H332
- ⚠ 3.4.2/1 Skin Sens. 1 H317
- ⚠ 3.8/3 STOT SE 3 H335

>= 9.9% - < 12.5% n-butyl acetate

REACH No.: 01-2119485493-29-xxxx, Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1

- ⚠ 2.6/3 Flam. Liq. 3 H226
- ⚠ 3.8/3 STOT SE 3 H336
- EUH066

>= 5% - < 7% 2-methoxy-1-methylethyl acetate

REACH No.: 01-2119475791-29-xxxx, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9

- ⚠ 2.6/3 Flam. Liq. 3 H226

>= 3% - < 5% xylene [isomer mixture]

REACH No.: 01-2119488216-32-xxxx, Index number: 601-022-00-9, CAS: 1330-20-7, EC: 215-535-7

- ⚠ 2.6/3 Flam. Liq. 3 H226
- ⚠ 3.10/1 Asp. Tox. 1 H304
- ⚠ 3.3/2 Eye Irrit. 2 H319
- ⚠ 3.8/3 STOT SE 3 H335
- ⚠ 3.9/2 STOT RE 2 H373
- ⚠ 3.2/2 Skin Irrit. 2 H315
- ⚠ 3.1/4/Dermal Acute Tox. 4 H312
- ⚠ 3.1/4/Inhal Acute Tox. 4 H332

>= 2.5% - < 3% toluene

REACH No.: 01-2119471310-51-xxxx, Index number: 601-021-00-3, CAS: 108-88-3, EC: 203-625-9

- ⚠ 2.6/2 Flam. Liq. 2 H225
- ⚠ 3.7/2 Repr. 2 H361
- ⚠ 3.10/1 Asp. Tox. 1 H304
- ⚠ 3.9/2 STOT RE 2 H373
- ⚠ 3.2/2 Skin Irrit. 2 H315
- ⚠ 3.8/3 STOT SE 3 H336

>= 1% - < 2% ethylbenzene

REACH No.: 01-2119489370-35-xxxx, Index number: 601-023-00-4, CAS: 100-41-4, EC: 202-849-4

- ⚠ 2.6/2 Flam. Liq. 2 H225
- ⚠ 3.1/4/Inhal Acute Tox. 4 H332
- ⚠ 3.9/2 STOT RE 2 H373
- ⚠ 3.10/1 Asp. Tox. 1 H304

>= 0.1% - < 0.2% hexamethylene-di-isocyanate

REACH No.: 01-2119457571-37-xxxx, Index number: 615-011-00-1, CAS: 822-06-0, EC: 212-485-8

- ⚠ 3.1/4/Oral Acute Tox. 4 H302
- ⚠ 3.3/2 Eye Irrit. 2 H319

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- ◆ 3.1/1/Inhal Acute Tox. 1 H330
- ◆ 3.8/3 STOT SE 3 H335
- ◆ 3.2/2 Skin Irrit. 2 H315
- ◆ 3.4.1/1 Resp. Sens. 1 H334
- ◆ 3.4.2/1 Skin Sens. 1 H317

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#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

In case of skin contact:

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Induce vomiting only on doctor's advice

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

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

Contact a poisons centre

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

Suitable extinguishing media:

In case of fire: Use CO<sub>2</sub>, Foam, Chemical powders to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Combustion may liberate toxic or very toxic gases. Do not breathe fumes.

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

##### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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#### SECTION 6: Accidental release measures

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

Wear personal protection equipment.

Remove all sources of ignition.

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Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Remove persons to safety.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

Eliminate all unguarded flames and possible sources of ignition. Do not smoke.

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

Collect the spilled product with no-sparking tools.

Rapidly recover the product. To do so, wear a mask and protective clothing.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

After the product has been recovered, rinse the area and materials involved with water.

#### 6.4. Reference to other sections

See also section 8 and 13

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Keep away from flame and sparks. Avoid accumulating electrostatic charge.

Place recipients on the ground whilst decanting, and wear anti-static clothing and shoes.

Avoid contact with skin and eyes, inhalation of vapours and mists.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

Do not smoke while working.

See also section 8 for recommended protective equipment.

### 7.2. Conditions for safe storage, including any incompatibilities

Store at below 30 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Safety electric system.

### 7.3. Specific end use(s)

No further recommendations. Refer to point 1.2

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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ethyl acetate - CAS: 141-78-6  
(OEL (IT)) - TWA: 400 ppm  
ACGIH - TWA(8h): 400 ppm - Notes: URT and eye irr

n-butyl acetate - CAS: 123-86-4  
TWA (Italia) - TWA: 150 ppm - STEL: 200 ppm  
ACGIH - TWA: 150 ppm - STEL: 200 ppm - Notes: Eye and URT irr

2-methoxy-1-methylethyl acetate - CAS: 108-65-6  
(OEL (IT)) - TWA(8h): 275 mg/m<sup>3</sup>, 50 ppm - STEL: 550 mg/m<sup>3</sup>, 100 ppm - Behaviour:  
Binding - Notes: Pelle  
EU - TWA(8h): 275 mg/m<sup>3</sup>, 50 ppm - STEL: 550 mg/m<sup>3</sup>, 100 ppm - Notes: Skin

xylene [isomer mixture] - CAS: 1330-20-7  
(OEL (IT)) - TWA(8h): 221 mg/m<sup>3</sup>, 50 ppm - STEL: 442 mg/m<sup>3</sup>, 100 ppm - Behaviour:  
Binding - Notes: pelle  
EU - TWA(8h): 221 mg/m<sup>3</sup>, 50 ppm - STEL: 442 mg/m<sup>3</sup>, 100 ppm - Notes: Skin  
ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

toluene - CAS: 108-88-3  
(OEL (IT)) - TWA(8h): 192 mg/m<sup>3</sup>, 50 ppm - Behaviour: Binding - Notes: Pelle  
EU - TWA(8h): 192 mg/m<sup>3</sup>, 50 ppm - STEL: 384 mg/m<sup>3</sup>, 100 ppm - Notes: Skin  
ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - Visual impair, female repro, pregnancy loss

ethylbenzene - CAS: 100-41-4  
(OEL (IT)) - TWA(8h): 442 mg/m<sup>3</sup>, 100 ppm - STEL: 884 mg/m<sup>3</sup>, 200 ppm - Behaviour:  
Binding - Notes: pelle  
EU - TWA(8h): 442 mg/m<sup>3</sup>, 100 ppm - STEL: 884 mg/m<sup>3</sup>, 200 ppm - Notes: Skin  
ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair

hexamethylene-di-isocyanate - CAS: 822-06-0  
(OEL (IT)) - TWA: 0.005 ppm  
ACGIH - TWA(8h): 0.005 ppm - Notes: URT irr, resp sens

#### DNEL Exposure Limit Values

ethyl acetate - CAS: 141-78-6  
Worker Industry: 1468 mg/m<sup>3</sup> - Consumer: 734 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects  
Worker Industry: 1468 ppm - Exposure: Human Inhalation - Frequency: Short Term (acute)  
Worker Industry: 63 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Industry: 734 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Worker Industry: 734 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 4.5 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects  
Consumer: 734 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term (acute)  
Consumer: 734 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 37 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, local effects  
Consumer: 367 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects  
Consumer: 367 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic

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- effects  
Hesamethylene diisocyanate, oligomerisation product (biuret type). - CAS: 28182-81-2  
Worker Industry: 0.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Consumer: 1 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
- n-butyl acetate - CAS: 123-86-4  
Worker Professional: 600 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects  
Worker Professional: 300 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Worker Professional: 11 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 11 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects  
Consumer: 300 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local effects  
Consumer: 35.7 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Consumer: 6 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects  
Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6  
Worker Professional: 153.5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 275 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 54.8 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Consumer: 33 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 1.67 mg/kg/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
- xylene [isomer mixture] - CAS: 1330-20-7  
Worker Industry: 180 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Industry: 77 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 108 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Consumer: 1872 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Consumer: 12.5 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
- toluene - CAS: 108-88-3  
Consumer: 226 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects  
Consumer: 226 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects  
Consumer: 226 mg/m<sup>3</sup> - Exposure: Human Dermal - Frequency: Long Term, systemic

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effects

Consumer: 56.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 8.13 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 384 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 384 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 192 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

ethylbenzene - CAS: 100-41-4

Worker Industry: 180 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 293 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 77 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

hexamethylene-di-isocyanate - CAS: 822-06-0

Worker Industry: 0.07 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 0.035 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 0.035 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

PNEC Exposure Limit Values

ethyl acetate - CAS: 141-78-6

Target: Fresh Water - Value: 0.26 mg/l

Target: Marine water - Value: 0.026 mg/l

Target: Freshwater sediments - Value: 1.25 mg/kg

Target: Marine water sediments - Value: 0.125 mg/kg

Target: Soil (agricultural) - Value: 0.24 mg/kg

Target: orally (secondary poisoning) - Value: 200 mg/kg - Notes:: Dietetico

Target: STP - Value: 650 mg/l

Hesamethylene diisocyanate, oligomerisation product (biuret type). - CAS: 28182-81-2

Target: STP - Value: 6.46 mg/l

n-butyl acetate - CAS: 123-86-4

Target: Fresh Water - Value: 0.18 mg/l

Target: Marine water - Value: 0.018 mg/l

Target: Freshwater sediments - Value: 0.981 mg/kg

Target: Marine water sediments - Value: 0.0981 mg/kg

Target: Soil (agricultural) - Value: 0.0903 mg/kg

Target: STP - Value: 35.6 mg/l

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

Target: Fresh Water - Value: 0.635 mg/l

Target: Marine water - Value: 0.0635 mg/l

Target: Marine water sediments - Value: 0.329 mg/kg - Notes:: dry

Target: Freshwater sediments - Value: 3.29 mg/kg - Notes:: dry

Target: Soil (agricultural) - Value: 0.29 mg/kg - Notes:: dry

Target: STP - Value: 100 mg/l

xylene [isomer mixture] - CAS: 1330-20-7



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Target: Fresh Water - Value: 0.327 mg/l  
Target: Fresh Water - Value: 0.327 mg/l  
Target: occasional emission - Value: 0.327 mg/l  
Target: Microorganisms in sewage treatments - Value: 6.58 mg/l  
Target: Soil (agricultural) - Value: 2.31 mg/kg - Notes:: dry  
Target: Marine water sediments - Value: 12.46 mg/kg - Notes:: dry  
Target: Freshwater sediments - Value: 12.46 mg/kg - Notes:: dry  
toluene - CAS: 108-88-3  
Target: Fresh Water - Value: 0.68 mg/l  
Target: Marine water - Value: 0.68 mg/l  
Target: Soil (agricultural) - Value: 2.89 mg/kg  
Target: Marine water sediments - Value: 16.39 mg/l  
Target: Freshwater sediments - Value: 16.39 mg/l  
Target: STP - Value: 13.61 mg/l  
ethylbenzene - CAS: 100-41-4  
Target: Fresh Water - Value: 0.1 mg/l  
Target: Marine water - Value: 0.01 mg/l  
Target: Marine water sediments - Value: 13.7 mg/l  
Target: Freshwater sediments - Value: 13.7 mg/l  
Target: occasional emission - Value: 0.1 mg/l  
hexamethylene-di-isocyanate - CAS: 822-06-0  
Target: Marine water - Value: 0.00774 mg/l  
Target: Fresh Water - Value: 0.0774 mg/l  
Target: Freshwater sediments - Value: 0.01334 mg/kg - Notes:: Dry weight  
Target: Marine water sediments - Value: 0.001334 mg/kg - Notes:: Dry weight  
Target: Soil (agricultural) - Value: 0.0026 mg/kg - Notes:: Dry weight  
Target: Microorganisms in sewage treatments - Value: 8.42 mg/l

#### 8.2. Exposure controls

##### Eye protection:

Use eye protection devices. Example: closed safety visors, goggles with side protection. Do not wear contact lenses.

##### Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

##### Protection for hands:

Because of the synergetic effect of the substances contained in the formulation it is not possible to identify a unique material that can resist to their fusion. Multi - layer protective gloves can be suitable for mixes of substances. Pay attention to the data about grade of protection and of permeation rate furnished by the producer of the gloves about the substances listed on point 3 of this sheet.

##### Respiratory protection:

Use adequate protective respiratory equipment, e.g. A2 or A2P2 or A2P3.

##### Thermal Hazards:

None known

##### Environmental exposure controls:

None known

##### Appropriate engineering controls:

None

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## SECTION 9: Physical and chemical properties

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

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Appearance and colour:	liquid
Odour:	characteristic
Odour threshold:	N.A.
pH:	N.A.
Melting point / freezing point:	< 1°C
Initial boiling point and boiling range:	> 55°C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	< 23°C (< 73.4 °F)
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	0.9400 Kg/l a 20°C
Solubility in water:	N.A.
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	> 250°C
Decomposition temperature:	N.A.
Viscosity (typical value):	12.00 " Din cup # 4
Explosive properties:	N.A.
Oxidizing properties:	N.A.
9.2. Other information	
Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

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#### SECTION 10: Stability and reactivity

- 10.1. Reactivity
  - Stable under normal conditions
- 10.2. Chemical stability
  - Stable under normal conditions
- 10.3. Possibility of hazardous reactions
  - No dangerous reaction is stored and used appropriately.
- 10.4. Conditions to avoid
  - Avoid accumulating electrostatic charge.
  - Vapours can form explosive mixtures with air.
- 10.5. Incompatible materials
  - Avoid contact with combustible materials. The product could catch fire.
- 10.6. Hazardous decomposition products
  - vapours potentially dangerous to health may be released.

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#### SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
  - Toxicological information of the product:
    - N.A.
  - Toxicological information of the main substances found in the product:
    - ethyl acetate - CAS: 141-78-6
    - a) acute toxicity:

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- Test: LD50 - Route: Skin - Species: Rabbit > 20000 mg/kg  
Test: LD50 - Route: Oral - Species: Rat = 5620 mg/kg  
Test: LC50 - Route: Inhalation - Species: Rat > 29.3 mg/l - Duration: 4h  
Test: LD50 - Route: Oral - Species: Rabbit = 4934 mg/kg body weight
- b) skin corrosion/irritation:  
Test: Skin Irritant - Route: Skin - Species: Rabbit Negative
- e) germ cell mutagenicity:  
Test: Genotoxicity Negative
- j) aspiration hazard:  
Test: Respiratory Tract Corrosive - Route: Inhalation Positive
- Hesamethylene diisocyanate, oligomerisation product (biuret type). - CAS: 28182-81-2
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg  
Test: LC50 - Route: Inhalation - Species: Rat > 400 mg/m<sup>3</sup> - Duration: 4h - Source: OCSE -Guide line 403
- n-butyl acetate - CAS: 123-86-4
- a) acute toxicity:  
Test: LC50 - Route: Inhalation - Species: Rat > 21 mg/l - Duration: 4h  
Test: LD50 - Route: Oral - Species: Rat = 10736 mg/kg - Notes: Method OECD linee guide 402  
Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 8532 mg/kg  
Test: LC50 - Route: Skin - Species: Rat > 5000 mg/kg  
Test: LC50 - Route: Inhalation Mist - Species: Rat > 23.8 mg/l - Duration: 6h
- b) skin corrosion/irritation:  
Test: Skin Irritant - Route: Skin - Species: Rabbit Negative
- xylene [isomer mixture] - CAS: 1330-20-7
- a) acute toxicity:  
Test: LD50 - Route: Inhalation - Species: Rat = 27 mg/l - Duration: 4h  
Test: LD50 - Route: Oral - Species: Rat = 3523 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit = 12126 mg/kg
- toluene - CAS: 108-88-3
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat 636 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit 12267 mg/kg  
Test: LC50 - Route: Inhalation - Species: Rat 25.7 mg/l - Duration: 4h
- ethylbenzene - CAS: 100-41-4
- a) acute toxicity:  
Test: LD50 - Route: Skin - Species: Rabbit = 15400 mg/kg  
Test: LC50 - Route: Inhalation - Species: Rat = 4000 Ppm - Duration: 4h
- d) respiratory or skin sensitisation:  
Test: Skin Sensitization - Route: Skin - Species: Cavia porcellus Negative
- hexamethylene-di-isocyanate - CAS: 822-06-0
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 746 mg/kg - Notes: Method: OECD TG 401  
Test: LD50 - Route: Skin - Species: Rabbit > 7000 mg/kg - Notes: Method: OECD TG 402  
Test: LC50 - Route: Inhalation - Species: Rat = 0.124 mg/l - Duration: 4h - Notes: Method: OECD TG 403 - Conc. del vapore saturo di 1,6-HDI a 25°C 0,095 mg/l  
Test: NOAEL - Route: Inhalation - Species: Rat 0.035 mg/m<sup>3</sup> - Duration: 6h - Notes:

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Method OECD linee guide 453

Test: LOAEL - Route: Inhalation - Species: Rat 0.175 mg/m<sup>3</sup> - Duration: 6h - Notes:

Method OECD linee guide 453

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

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## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

ethyl acetate - CAS: 141-78-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 454.7 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 154 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 3300 mg/l - Duration h: 48

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Algae > 100 mg/l - Duration h: 72

n-butyl acetate - CAS: 123-86-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 64 mg/l - Duration h: 48

Endpoint: EC50 - Species: Daphnia = 73 mg/l - Duration h: 24

Endpoint: EC50 - Species: Algae = 674 mg/l - Duration h: 72

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

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 ml/l - Duration h: 96 - Notes: Method OECD linee guide 203

Endpoint: EC50 - Species: Daphnia > 500 mg/l - Duration h: 48 - Notes: Method Direttiva 67/548CEE allegato V,C.2

Endpoint: ErC50 - Species: Algae > 1000 mg/l - Duration h: 72 - Notes: Method OECD TG 209

xylene [isomer mixture] - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 3.2 mg/l - Duration h: 96

Endpoint: LC50 - Species: Algae = 2.6 mg/l - Duration h: 73

toluene - CAS: 108-88-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 12500 Ppm - Duration h: 72

Endpoint: EC50 - Species: Algae > 433 Ppm - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 1000 Ppm - Duration h: 504

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ethylbenzene - CAS: 100-41-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 42.3 mg/l - Duration h: 96

#### 12.2. Persistence and degradability

None known

N.A.

#### 12.3. Bioaccumulative potential

N.A.

#### 12.4. Mobility in soil

N.A.

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

vPvB Substances: None - PBT Substances: None

#### 12.6. Other adverse effects

None known

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Where applicable, refer to the following regulatory provisions : 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

## SECTION 14: Transport information

### 14.1. UN number

ADR-UN Number: 1263

IATA-Un number: 1263

IMDG-Un number: 1263

### 14.2. UN proper shipping name

ADR-Shipping Name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

IATA-Shipping Name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

IMDG-Shipping Name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

### 14.3. Transport hazard class(es)

ADR-Class: 3

ADR-Label: 3

ADR - Hazard identification number: 33

IATA-Class: 3

IATA-Label: 3

IMDG-Class: 3

### 14.4. Packing group

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

### 14.5. Environmental hazards

### 14.6. Special precautions for user

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ADR-Tunnel Restriction Code: 2 (D/E)  
IATA-Passenger Aircraft: 353  
IATA-Cargo Aircraft: 364  
IMDG-Technical name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)  
IMDG-EMS: F-E , S-E

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
No

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#### SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) 2015/830  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:  
None

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

1999/13/EC (VOC directive)

Directive 1999/13/CE

Total Volatile Organic Compounds (typical value):	70 %	
Total Volatile Organic Carbon (typical value):		41.27 %
Total solids content:	29.4 - 30.6 %	

15.2. Chemical safety assessment

No

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#### SECTION 16: Other information

Text of phrases referred to under heading 3:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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EUH066 Repeated exposure may cause skin dryness or cracking.  
H332 Harmful if inhaled.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H315 Causes skin irritation.  
H312 Harmful in contact with skin.  
H361 Suspected of damaging fertility or the unborn child.  
H302 Harmful if swallowed.  
H330 Fatal if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Paragraphs modified from the previous revision:

2. HAZARDS IDENTIFICATION  
SECTION 3: Composition/information on ingredients  
SECTION 8: Exposure controls/personal protection  
SECTION 11: Toxicological information  
SECTION 12: Ecological information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities  
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eighth Edition - Van  
Nostrand Reinold  
ACGIH - Threshold Limit Values - 2004 edition

RESTRICTED TO PROFESSIONAL USERS

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
CLP: Classification, Labeling, Packaging.  
DNEL: Derived No Effect Level.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
IMDG: International Maritime Code for Dangerous Goods.



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INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.
N.A.:	N.A.
N.D.:	

End of Safety Data Sheet



## Safety Data Sheet

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Label model

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Hazard pictograms:

Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

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

P240 Ground/bond container and receiving equipment.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P370+P378 In case of fire: Use CO<sub>2</sub>, Foam, Chemical powders to extinguish.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH204 Contains isocyanates. May produce an allergic reaction.

Contains

ethyl acetate

Hexamethylene diisocyanate, oligomerisation product (biuret type).

n-butyl acetate

xylene [isomer mixture]

hexamethylene-di-isocyanate: May produce an allergic reaction.

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**Quantity:**

**Company:**

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