

## Safety Data Sheet MAPEFLEX PU 35 CR

Safety Data Sheet dated 13/2/2018, version 4

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

1.1. Product identifier

Trade name: MAPEFLEX PU 35 CR

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

Uses advised against:

==

1.3. Details of the supplier of the safety data sheet

Supplier:

MAPEI S.p.A. - Via Cafiero, 22 - 20158 Milano

Tel: +39-02-376731

Fax: +39-02-37673.214

Competent person responsible for the safety data sheet:

sicurezza@mapei.it

1.4. Emergency telephone number


MAPEI S.p.A. - Tel. +(39)02376731 - (office hours)

Poison Centre - Ospedale di Niguarda - Milan - Tel. +39/02/66101029

### SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

 Danger, Resp. Sens. 1, May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard Statements:

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statements:

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/...

P501 Dispose of contents/container in accordance with applicable regulations.

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#### Special Provisions:

EUH204 Contains isocyanates. May produce an allergic reaction.

#### Contains

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate  
4-isocyanatesulphonyltoluene; tosyl isocyanate: May produce an allergic reaction.

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

None

#### 2.3. Other hazards

vPvB Substances: None - PBT Substances: None

#### Other Hazards:

No other hazards

## 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:

>= 0.49% - < 1% 4-isocyanatesulphonyltoluene; tosyl isocyanate

REACH No.: 01-2119980050-47-XXXX, Index number: 615-012-00-7, CAS: 4083-64-1, EC: 223-810-8

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.8/3 STOT SE 3 H335

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.1/1-1A-1B Resp. Sens. 1,1A,1B H334

EUH014

>= 0.25% - < 0.49% 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate

REACH No.: 01-2119457014-47-XXXX, Index number: 615-005-00-9, CAS: 101-68-8, EC: 202-966-0

⚠ 3.1/4/Inhal Acute Tox. 4 H332

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.8/3 STOT SE 3 H335

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.1/1-1A-1B Resp. Sens. 1,1A,1B H334

⚠ 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317

⚠ 3.9/2 STOT RE 2 H373

⚠ 3.6/2 Carc. 2 H351

>= 0.01% - < 0.05% octhiline (ISO); 2-octyl-2H-isothiazol-3-one

Index number: 613-112-00-5, CAS: 26530-20-1, EC: 247-761-7

⚠ 3.1/2/Inhal Acute Tox. 2 H330

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 3.3/1 Eye Dam. 1 H318

⚠ 3.4.2/1 Skin Sens. 1 H317

⚠ 4.1/C1 Aquatic Chronic 1 H410 M=1.

⚠ 3.1/3/Dermal Acute Tox. 3 H311

⚠ 3.2/1B Skin Corr. 1B H314

⚠ 4.1/A1 Aquatic Acute 1 H400 M=10.

>= 0.005% - < 0.01% 2-methoxy-1-methylethyl acetate

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

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203-603-9

⚠ 2.6/3 Flam. Liq. 3 H226

>= 0.005% - < 0.01% phosphoric acid ... %, orthophosphoric acid ... %

REACH No.: 01-2119485924-24-XXXX, Index number: 015-011-00-6, CAS: 7664-38-2, EC: 231-633-2

⚠ 2.16/1 Met. Corr. 1 H290

⚠ 3.2/1B Skin Corr. 1B H314

#### 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 with plenty of water and soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wash immediately with water for at least 10 minutes.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

A suspension of activated charcoal in water, or petroleum jelly may be administered.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

If inhaled, the product may cause sensitisation.

##### 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).

Treatment:

(see paragraph 4.1)

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

The original ingredients or unidentified toxic and/or irritant compounds may be present in the combustion fumes.

##### 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 persons to safety.
  - See protective measures under point 7 and 8.
- 6.2. Environmental precautions
  - Limit leakages with earth or sand.
  - 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
- 6.3. Methods and material for containment and cleaning up
  - After the product has been recovered, rinse the area and materials involved with water.
  - Suitable material for taking up: absorbing material, organic, sand
  - Wash with plenty of water.
  - Retain contaminated washing water and dispose it.
- 6.4. Reference to other sections
  - See also section 8 and 13

#### SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
  - Avoid contact with skin and eyes, inhalation of vapours and mists.
  - 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. (see point 10.5)
  - Contaminated clothing should be changed before entering eating areas.
  - Do not eat or drink while working.
  - See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities
  - Keep away from food, drink and feed.
  - Incompatible materials:
    - None in particular.
  - Instructions as regards storage premises:
    - Adequately ventilated premises.
- 7.3. Specific end use(s)
  - None in particular

#### SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
  - 4-isocyanatesulphonyltoluene; tosyl isocyanate - CAS: 4083-64-1
    - SUVA - TWA: 0.02 mg/m<sup>3</sup> - STEL: 0.02 mg/m<sup>3</sup>
  - 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate - CAS: 101-68-8
    - SUVA - TWA: 0.02 mg/m<sup>3</sup> - STEL: 0.02 mg/m<sup>3</sup>
    - NDS - TWA: 0.03 mg/m<sup>3</sup>
    - NDSP - TWA: 0.09 mg/m<sup>3</sup>
    - ACGIH - TWA(8h): 0.005 ppm - Notes: Resp sens
    - ÅK - TWA: 0.05 mg/m<sup>3</sup>
    - CK - TWA: 0.05 mg/m<sup>3</sup>
  - 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
    - ACGIH - TWA: 275 mg/m<sup>3</sup>, 50 ppm - STEL: 550 mg/m<sup>3</sup>, 100 ppm - Notes: Skin
    - SUVA - TWA: 275 mg/m<sup>3</sup>, 50 ppm

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NDS - TWA: 260 mg/m<sup>3</sup>  
 NDSC<sub>h</sub> - TWA: 520 mg/m<sup>3</sup>  
 EU - TWA(8h): 275 mg/m<sup>3</sup>, 50 ppm - STEL: 550 mg/m<sup>3</sup>, 100 ppm - Notes: Skin phosphoric acid ... %, orthophosphoric acid ... % - CAS: 7664-38-2  
 EU - TWA(8h): 1 mg/m<sup>3</sup> - STEL: 2 mg/m<sup>3</sup>  
 ACGIH - TWA(8h): 1 mg/m<sup>3</sup> - STEL: 3 mg/m<sup>3</sup> - Notes: URT, eye and skin irr

**DNEL Exposure Limit Values**  
 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate - CAS: 101-68-8  
 Worker Industry: 50 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects  
 Worker Industry: 0.1 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects  
 Worker Industry: 0.1 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects  
 Worker Industry: 0.05 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
 Worker Industry: 0.05 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects  
 Consumer: 25 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects  
 Consumer: 0.05 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects  
 Consumer: 20 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects  
 Consumer: 0.05 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects  
 Consumer: 0.025 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
 Consumer: 0.025 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects  
 Worker Industry: 28.7 mg/cm<sup>2</sup> - Consumer: 17.2 mg/cm<sup>2</sup> - Exposure: Human Dermal - Frequency: Short Term, local effects

2-methoxy-1-methylethyl acetate - CAS: 108-65-6  
 Worker Industry: 796 mg/kg - Consumer: 320 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
 Worker Industry: 275 mg/m<sup>3</sup> - Consumer: 33 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
 Consumer: 36 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
 Worker Industry: 550 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

**PNEC Exposure Limit Values**  
 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate - CAS: 101-68-8  
 Target: Fresh Water - Value: 1 mg/l - Type of hazard: >  
 Target: Marine water - Value: 0.1 mg/l - Type of hazard: >  
 Target: Soil (agricultural) - Value: 1 mg/kg - Type of hazard: >  
 Target: Microorganisms in sewage treatments - Value: 1 mg/l - Type of hazard: >

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: Freshwater sediments - Value: 3.29 mg/kg  
 Target: Marine water sediments - Value: 0.329 mg/kg  
 Target: MAP2 - Value: 6.35 mg/l  
 Target: Microorganisms in sewage treatments - Value: 100 mg/l  
 Target: Soil (agricultural) - Value: 0.29 mg/kg

**8.2. Exposure controls**  
 Eye protection:

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Not needed for normal use. Anyway, operate according good working practices.

#### Protection for skin:

Suitable materials for safety gloves; EN 374:

Polychloroprene - CR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Nitrile rubber - NBR: thickness  $\geq 0,35\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Butyl rubber - IIR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Fluorinated rubber - FKM: thickness  $\geq 0,4\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

#### Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

A dust mask (P2) should be worn if above exposure limits (EN 149)

In case of insufficient ventilation use mask with A filters (EN 14387).).

Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

#### Thermal Hazards:

None

#### Environmental exposure controls:

None

#### Appropriate engineering controls:

None

## SECTION 9: Physical and chemical properties

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

Appearance: paste

Colour: grey

Odour: typical

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point:  $\approx$  °C

Initial boiling point and boiling range:  $\approx$  °C

Solid/gas flammability: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: Not determined

Flash point: N.A.

Evaporation rate: Not determined

Vapour pressure: Not determined

Relative density: 1,30-1,40 g/cm<sup>3</sup> (23°C)

Vapour density (air=1): Not determined

Solubility in water: insoluble

Solubility in oil: partly soluble

Viscosity: 1000000-1600000 mPa.s (23°C)

Auto-ignition temperature: N.A. - No explosive or spontaneous ignition in contact with air at room temperature

Explosion limits(by volume): N.A.

Decomposition temperature: N.A.

Partition coefficient (n-octanol/water): N.A. - This product is a mixture

Explosive properties: N.A. - No components with explosive properties

Oxidizing properties: N.A. - No component with oxidizing properties

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9.2. Other information  
No additional information

#### 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  
It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth, alloys in powder or vapours) and powerful reducing agents.  
It may generate toxic gases on contact with oxidising mineral acids, and powerful oxidising agents.  
It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.
- 10.4. Conditions to avoid  
Stable under normal conditions.
- 10.5. Incompatible materials  
None in particular.
- 10.6. Hazardous decomposition products  
None.  
It releases carbon dioxide in contact with water  
It polymerises on heating

#### SECTION 11: Toxicological information

- 11.1. Information on toxicological effects  
Route(s) of entry:  
Ingestion: Yes  
Inhalation: Yes  
Contact: No
- There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.
- Toxicological information on main components of the mixture:  
Toxicological information of the product:  
N.A.
- Toxicological information of the main substances found in the product:  
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate - CAS: 101-68-8
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit > 9400 mg/kg  
Test: LC50 - Route: Inhalation Dust - Species: Rat = 0.368 mg/l - Duration: 4h
- b) skin corrosion/irritation:  
Test: Skin Irritant - Route: Skin - Species: Rabbit : Positive
- d) respiratory or skin sensitisation:  
Test: Skin Sensitization - Route: Skin - Species: Mouse : Positive  
Test: Respiratory Sensitization - Route: Inhalation : Positive
- f) carcinogenicity:  
Test: Carcinogenicity - Route: Inhalation - Species: Rat = 6 mg/m<sup>3</sup> - Notes: 2 y
- g) reproductive toxicity:  
Test: map1 - Route: Inhalation - Species: Rat = 12 mg/m<sup>3</sup> - Notes: 20 d
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg  
Test: LC50 - Route: Inhalation Dust - Species: Rat > 23.8 mg/l - Source: 6 h



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e) germ cell mutagenicity:

Test: map1 - Route: Inhalation - Species: Rat = 1000 Ppm

g) reproductive toxicity:

Test: map1 - Route: Inhalation - Species: Rat = 500 Ppm

phosphoric acid ... %, orthophosphoric acid ... % - CAS: 7664-38-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1530 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 0.85 mg/l - Duration: 1h

Test: LD50 - Route: Skin - Species: Rabbit = 2.740 mg/kg

4-isocyanatesulphonyltoluene; tosyl isocyanate - CAS: 4083-64-1

LD50(oral rat): 2234 mg/kg

Corrosive/Irritating Properties:

Eye:

The product can cause a temporary irritation by contact.

Carcinogenic Effects:

No effects are known.

Mutagenic Effects:

No effects are known.

Teratogenic Effects:

No effects are known.

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

## SECTION 12: Ecological information

### 12.1. Toxicity

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

Not available data on the mixture

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate - CAS: 101-68-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 1000 mg/l - Duration h: 24

Endpoint: EC50 - Species: Algae > 1640 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia > 10 mg/l - Notes: 21 d

c) Bacteria toxicity:

Endpoint: EC50 > 100 mg/l - Duration h: 3

d) Terrestrial toxicity:

Endpoint: NOEC > 1000 mg/kg - Notes: 14 d

e) Plant toxicity:

Endpoint: NOEC > 1000 mg/kg - Notes: 14 d

octhlinone (ISO); 2-octyl-2H-isothiazol-3-one - CAS: 26530-20-1

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 0.42 mg/l - Duration h: 48 - Notes: (OECD 202)

Endpoint: EC50 - Species: Algae = 0.084 mg/l - Duration h: 72 - Notes: (OECD 201)



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Endpoint: LC50 - Species: Fish = 0.036 mg/l - Duration h: 96 - Notes: (OECD 203)  
 b) Aquatic chronic toxicity:  
 Endpoint: NOEC - Species: Daphnia = 0.002 mg/l - Notes: 21 days (OECD 211)  
 Endpoint: NOEC - Species: Fish = 0.022 mg/l - Notes: 28 days (OECD 210)  
 Endpoint: NOEC - Species: Algae = 0.004 mg/l - Duration h: 72 - Notes: (OECD 201)

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

a) Aquatic acute toxicity:  
 Endpoint: LC50 - Species: Fish = 100-180 mg/l - Duration h: 96  
 Endpoint: EC50 - Species: Daphnia > 500 mg/l - Duration h: 48  
 Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72  
 Endpoint: NOEC - Species: Algae = 1000 mg/l - Duration h: 96

b) Aquatic chronic toxicity:  
 Endpoint: NOEC - Species: Fish = 47.5 mg/l - Notes: 14 d  
 Endpoint: NOEC - Species: Daphnia = 100 mg/l - Notes: 21 d

phosphoric acid ... %, orthophosphoric acid ... % - CAS: 7664-38-2

a) Aquatic acute toxicity:  
 Endpoint: LC50 - Species: Fish = 138 mg/l - Duration h: 96

c) Bacteria toxicity:  
 Endpoint: EC50 - Species: 19126 = 270 mg/l

12.2. Persistence and degradability  
 oththilnone (ISO); 2-octyl-2H-isothiazol-3-one - CAS: 26530-20-1  
 Biodegradability: Readily biodegradable - Test: N.A. - Duration: N.A. - %: N.A. - Notes:  
 0,6-1,4 d (half-life) OECD 309

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  
 Not available data on the mixture

## 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.  
 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.  
 Disposal of hardened product (EC waste code) : 08 04 10  
 Disposal of not hardened product (EC waste code) : 08 04 09  
 The suggested European waste code is just based on the composition of the product.  
 According to the specific process or application field a different waste code may be necessary.

## SECTION 14: Transport information

14.1. UN number  
 Not classified as dangerous in the meaning of transport regulations.  
 UN Number: =

14.2. UN proper shipping name  
 N.A.

14.3. Transport hazard class(es)  
 Rail/Road(RID/ADR): no dangerous good  
 ADR-Upper number: NA

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Air (ICAO/IATA):	no dangerous good
Sea (IMO/IMDG):	no dangerous good
N.A.	
14.4. Packing group	
N.A.	
14.5. Environmental hazards	
Marine pollutant:	No
N.A.	
14.6. Special precautions for user	
N.A.	
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
No	

#### 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)
- Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
- Restrictions related to the product:
- Restriction 3
- Restriction 40
- Restrictions related to the substances contained:
- Restriction 56
- Legislative Decree no. 81 of the 9th of April 2008 Title XI "Dangerous substances - Chapter I - Protection against chemical agents"
- Directive 2000/39/CE and s.m.i. (Professional threshold limit)
- Legislative Decree no. 152 of the 3rd of April 2006 and subsequent modifications and additions. (Environmental regulations)
- Directive 105/2003/CE (Seveso III): N.A.
- ADR Agreement – IMDG Code – IATA Regulation
- VOC (2004/42/EC) : N.A. g/l
- Provisions related to directive EU 2012/18 (Seveso III):
- N.A.
- 15.2. Chemical safety assessment
- No

#### SECTION 16: Other information

- Text of phrases referred to under heading 3:
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H315 Causes skin irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- EUH014 Reacts violently with water.

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H332 Harmful if inhaled.  
H317 May cause an allergic skin reaction.  
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.  
H351 Suspected of causing cancer.  
H330 Fatal if inhaled.  
H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
H410 Very toxic to aquatic life with long lasting effects.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H400 Very toxic to aquatic life.  
H226 Flammable liquid and vapour.  
H290 May be corrosive to metals.

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking  
SECTION 2: Hazards identification  
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SECTION 12: Ecological information  
SECTION 14: Transport information  
SECTION 15: Regulatory information  
SECTION 16: Other information

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

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances  
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities

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.

This MSDS cancels and replaces any preceding release.

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.

## Safety Data Sheet

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ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
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).
OEL:	Substance with a Union workplace exposure limit.
VLE:	Threshold Limiting Value.
WGK:	German Water Hazard Class.
TSCA:	United States Toxic Substances Control Act Inventory
DSL:	DSL - Canadian Domestic Substances List
N.A.:	Not available