

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : PROTECH ROAD LINE  
Revision date : 12.01.2021  
Print date : 12.01.2021

Version : 1.0.0

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

### 1.1 Product identifier

PROTECH ROAD LINE

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

Road marking paint

#### Uses advised against

None

### 1.3 Details of the supplier of the safety data sheet

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

AZICHEM Srl

**Street :** Via G. Gentile16/A

**Postal code/city :** 46044 Goito (MN)

**Telephone :** +390376604185/604365

**Telefax :** +39 0376 604398

**Information contact :** info@azichem.com

### 1.4 Emergency telephone number

Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano) (24h)

Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)

Centro Antiveleni di Bergamo 800 883300 (CAV Ospedali Riuniti - Bergamo)

Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze)

Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Gemelli - Roma)

Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I - Roma) Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Flam. Liq. 2 ; H225 - Flammable liquids : Category 2 ; Highly flammable liquid and vapour.

Repr. 2 ; H361d - Reproductive toxicity : Category 2 ; Suspected of damaging the unborn child.

STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated exposure.

STOT SE 2 ; H371 - STOT-single exposure : Category 2 ; May cause damage to organs.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Hazard pictograms



Flame (GHS02) · Health hazard (GHS08) · Exclamation mark (GHS07)

##### Signal word

Danger

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### Hazard components for labelling

TOLUENE ; CAS No. : 108-88-3  
METHYL ACETATE ; CAS No. : 79-20-9  
METHANOL ; CAS No. : 67-56-1

### Hazard statements

H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H361d Suspected of damaging the unborn child.  
H371 May cause damage to organs.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.

### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

TOLUENE ; REACH registration No. : 01-2119471310-51 ; EC No. : 203-625-9; CAS No. : 108-88-3  
Weight fraction :  $\geq 10 - < 15$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 Repr. 2 ; H361d STOT RE 2 ; H373 Skin Irrit. 2 ; H315 STOT SE 3 ; H336

METHYL ACETATE ; REACH registration No. : 01-2119459211-47 ; EC No. : 201-185-2; CAS No. : 79-20-9  
Weight fraction :  $\geq 5 - < 10$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

METHANOL ; REACH registration No. : 01-2119433307-44 ; EC No. : 200-659-6; CAS No. : 67-56-1  
Weight fraction :  $\geq 1 - < 2,5$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Acute Tox. 3 ; H301 Acute Tox. 3 ; H311 Acute Tox. 3 ; H331 STOT SE 1 ; H370

#### Additional information

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation

Remove victim out of the danger area. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

#### In case of skin contact

Wash immediately with: Water Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician. In case of skin reactions, consult a physician.

#### After eye contact

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

### After ingestion

Never give anything by mouth to an unconscious person or a person with cramps.

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

May be fatal if swallowed and enters airways. Vapours may cause drowsiness and dizziness. Primary irritation to the skin

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Extinguishing powder alcohol resistant foam Carbon dioxide (CO<sub>2</sub>) Water mist

#### Unsuitable extinguishing media

High power water jet

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

#### Hazardous combustion products

Carbon dioxide (CO<sub>2</sub>) Carbon monoxide

### 5.3 Advice for firefighters

Remove persons to safety.

#### Special protective equipment for firefighters

Do not inhale explosion and combustion gases. Use appropriate respiratory protection.

## SECTION 6: Accidental release measures

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

Clear spills immediately. Wear a self-contained breathing apparatus and chemical protective clothing.

#### For non-emergency personnel

Remove persons to safety.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

#### For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

#### For cleaning up

The contaminated area should be cleaned up immediately with: Water Retain contaminated washing water and dispose it.

### 6.4 Reference to other sections

Reference to other sections Safe handling: see section 7 Personal protection equipment: see section 8

## SECTION 7: Handling and storage

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## 7.1 Precautions for safe handling

### Protective measures

#### Specific requirements or handling rules

Do not breathe dust. Do not breathe gas/fumes/vapour/spray. See section 8.

#### Advices on general occupational hygiene

Normal precautions taken when handling chemicals should be observed.

## 7.2 Conditions for safe storage, including any incompatibilities

Only use containers specifically approved for the substance/product.

### Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place. Protect against UV-radiation/sunlight Humidity.

### Hints on joint storage

Storage class : 3

Storage class (TRGS 510) : 3

#### Keep away from

Store at least 3 metres apart from: Chemicals/products that react together readily

### Further information on storage conditions

Keep container tightly closed and in a well-ventilated place.

## 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

TOLUENE ; CAS No. : 108-88-3

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 50 ppm / 190 mg/m<sup>3</sup>

Peak limitation : 4(II)

Remark : H, Y

Version : 06.11.2015

Limit value type (country of origin) : STEL ( EC )

Limit value : 100 ppm / 384 mg/m<sup>3</sup>

Remark : H

Version : 07.02.2006

Limit value type (country of origin) : TWA ( EC )

Limit value : 50 ppm / 192 mg/m<sup>3</sup>

Remark : H

Version : 07.02.2006

METHYL ACETATE ; CAS No. : 79-20-9

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 200 ppm / 610 mg/m<sup>3</sup>

Peak limitation : 4(II)

Remark : Y

Version : 06.11.2015

METHANOL ; CAS No. : 67-56-1

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Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 200 ppm / 270 mg/m<sup>3</sup>  
Peak limitation : 4(II)  
Remark : H, Y  
Version : 06.11.2015  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 200 ppm / 260 mg/m<sup>3</sup>  
Remark : H  
Version : 07.02.2006

### Biological limit values

TOLUENE ; CAS No. : 108-88-3

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Toluene / Whole blood (B) / End of exposure or end of shift  
Limit value : 1 mg/l  
Version : 31.03.2004

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : o-Cresol / Urine (U) / End of exposure or end of shift ; At long term exposure: after several previous shifts  
Limit value : 3 mg/l  
Version : 31.03.2004

METHANOL ; CAS No. : 67-56-1

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Methanol / Urine (U) / End of exposure or end of shift ; At long term exposure: after several previous shifts  
Limit value : 30 mg/l  
Version : 31.03.2004

### DNEL/DMEL and PNEC values

#### DNEL/DMEL

Limit value type : DNEL Consumer (systemic) ( TOLUENE ; CAS No. : 108-88-3 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 226 mg/kg  
Limit value type : DNEL Consumer (systemic) ( TOLUENE ; CAS No. : 108-88-3 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 56,5 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic) ( TOLUENE ; CAS No. : 108-88-3 )  
Exposure route : Oral  
Exposure frequency : Long-term (repeated)  
Limit value : 8,13 mg/kg  
Limit value type : DNEL worker (systemic) ( TOLUENE ; CAS No. : 108-88-3 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 384 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( TOLUENE ; CAS No. : 108-88-3 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 192 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic) ( METHYL ACETATE ; CAS No. : 79-20-9 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 44 mg/kg  
Limit value type : DNEL Consumer (systemic) ( METHYL ACETATE ; CAS No. : 79-20-9 )

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Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	131 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( METHYL ACETATE ; CAS No. : 79-20-9 )
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	44 mg/kg
Limit value type :	DNEL worker (systemic) ( METHYL ACETATE ; CAS No. : 79-20-9 )
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	88 mg/kg
Limit value type :	DNEL worker (systemic) ( METHYL ACETATE ; CAS No. : 79-20-9 )
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	610 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (local) ( METHANOL ; CAS No. : 67-56-1 )
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	50 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( METHANOL ; CAS No. : 67-56-1 )
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	8 mg/kg
Limit value type :	DNEL Consumer (systemic) ( METHANOL ; CAS No. : 67-56-1 )
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	50 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( METHANOL ; CAS No. : 67-56-1 )
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	8 mg/kg
Limit value type :	DNEL Consumer (systemic) ( METHANOL ; CAS No. : 67-56-1 )
Exposure route :	Dermal
Exposure frequency :	Short-term (acute)
Limit value :	8 mg/kg
Limit value type :	DNEL Consumer (systemic) ( METHANOL ; CAS No. : 67-56-1 )
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	50 mg/kg
Limit value type :	DNEL Consumer (systemic) ( METHANOL ; CAS No. : 67-56-1 )
Exposure route :	Oral
Exposure frequency :	Short-term (acute)
Limit value :	8 mg/kg
Limit value type :	DNEL worker (local) ( METHANOL ; CAS No. : 67-56-1 )
Exposure route :	Dermal
Exposure frequency :	Short-term (acute)
Limit value :	40 mg/kg
Limit value type :	DNEL worker (local) ( METHANOL ; CAS No. : 67-56-1 )
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	260 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( METHANOL ; CAS No. : 67-56-1 )
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)

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Limit value : 260 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( METHANOL ; CAS No. : 67-56-1 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 40 mg/kg  
Limit value type : DNEL worker (systemic) ( METHANOL ; CAS No. : 67-56-1 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 260 mg/m<sup>3</sup>

### PNEC

Limit value type : PNEC aquatic, freshwater ( TOLUENE ; CAS No. : 108-88-3 )  
Limit value : 0,68 mg/l  
Limit value type : PNEC aquatic, intermittent release ( TOLUENE ; CAS No. : 108-88-3 )  
Limit value : 0,68 mg/l  
Limit value type : PNEC aquatic, marine water ( TOLUENE ; CAS No. : 108-88-3 )  
Limit value : 0,68 mg/l  
Limit value type : PNEC sediment, freshwater ( TOLUENE ; CAS No. : 108-88-3 )  
Limit value : 16,39 mg/kg  
Limit value type : PNEC sediment, marine water ( TOLUENE ; CAS No. : 108-88-3 )  
Limit value : 16,39 mg/kg  
Limit value type : PNEC Soil ( TOLUENE ; CAS No. : 108-88-3 )  
Limit value : 2,89 mg/kg  
Limit value type : PNEC sewage treatment plant (STP) ( TOLUENE ; CAS No. : 108-88-3 )  
Limit value : 13,61 mg/l  
Limit value type : PNEC aquatic, freshwater ( METHYL ACETATE ; CAS No. : 79-20-9 )  
Limit value : 0,12 mg/l  
Limit value type : PNEC aquatic, intermittent release ( METHYL ACETATE ; CAS No. : 79-20-9 )  
Limit value : 1,2 mg/l  
Limit value type : PNEC aquatic, marine water ( METHYL ACETATE ; CAS No. : 79-20-9 )  
Limit value : 0,01 mg/l  
Limit value type : PNEC sediment, freshwater ( METHYL ACETATE ; CAS No. : 79-20-9 )  
Limit value : 0,12 mg/kg  
Limit value type : PNEC sediment, marine water ( METHYL ACETATE ; CAS No. : 79-20-9 )  
Limit value : 0,01 mg/kg  
Limit value type : PNEC Soil ( METHYL ACETATE ; CAS No. : 79-20-9 )  
Limit value : 0,04 mg/kg  
Limit value type : PNEC Secondary Poisoning ( METHYL ACETATE ; CAS No. : 79-20-9 )  
Limit value : 20,4 mg/kg  
Limit value type : PNEC sewage treatment plant (STP) ( METHYL ACETATE ; CAS No. : 79-20-9 )  
Limit value : 600 mg/l  
Limit value type : PNEC aquatic, freshwater ( METHANOL ; CAS No. : 67-56-1 )  
Limit value : 154 mg/l  
Limit value type : PNEC aquatic, marine water ( METHANOL ; CAS No. : 67-56-1 )  
Limit value : 15,4 mg/l  
Limit value type : PNEC sediment, freshwater ( METHANOL ; CAS No. : 67-56-1 )  
Limit value : 570 mg/l  
Limit value type : PNEC sewage treatment plant (STP) ( METHANOL ; CAS No. : 67-56-1 )  
Limit value : 100 mg/l

## 8.2 Exposure controls

### Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

### Personal protection equipment

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When using do not eat, drink, smoke, sniff.

## Eye/face protection

### Suitable eye protection

Eye glasses with side protection DIN EN 166

## Skin protection

### Hand protection

Tested protective gloves must be worn DIN EN 374

**Suitable material :** Butyl caoutchouc (butyl rubber) NBR (Nitrile rubber) PVC (Polyvinyl chloride)

## Respiratory protection

Full-/half-/quarter-face masks (DIN EN 136/140) Filter type: A

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Safety relevant basis data

<b>Appearance :</b>			liquido denso
<b>Colour</b>			different colors
<b>Odour</b>			solvent
<b>Melting point/melting range :</b>	( 1013 hPa )	<	-95 °C
<b>Vapour density</b>	( air = 1 )		Not Determined
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	>	35 °C
<b>Decomposition temperature :</b>			not determined
<b>Self flammability</b>			No data available
<b>Flash point :</b>		<	23 °C
<b>Lower explosion limit :</b>			not determined
<b>Upper explosion limit :</b>			not determined
<b>Explosive properties</b>			Vapours may form explosive mixture
<b>Vapour pressure</b>	( 20 °C )		not determined
<b>Relative density :</b>	( 20 °C )		1,6 (Water = 1)
<b>Water solubility :</b>	( 20 °C )		insoluble
<b>Soluble in:</b>	( 20 °C )		organic solvents
<b>Log Pow</b>	( 20 °C )		not applicable
<b>Odour threshold :</b>			not determined
<b>Evaporation rate :</b>			not determined
<b>Maximum VOC content (EC) :</b>			20 Wt %
<b>Oxidizing properties</b>			Not oxidising

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Flammable Ignition hazard

### 10.2 Chemical stability

See section 7. No additional measures necessary.

### 10.3 Possibility of hazardous reactions



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May catch fire on contact with oxidising mineral acids, strong oxidizing agents.

### 10.4 Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

### 10.5 Incompatible materials

Oxidising agent.

### 10.6 Hazardous decomposition products

If burned can release: Carbon dioxide. Carbon monoxide

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter :	LD50 ( TOLUENE ; CAS No. : 108-88-3 )
Exposure route :	Oral
Species :	Rat
Effective dose :	5000 mg/kg
Exposure time :	24
Parameter :	LD50 ( METHYL ACETATE ; CAS No. : 79-20-9 )
Exposure route :	Oral
Species :	Rabbit
Effective dose :	3700 mg/kg
Parameter :	LD50 ( METHANOL ; CAS No. : 67-56-1 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1187 - 2769 mg/kg

##### Acute dermal toxicity

Parameter :	LD50 ( TOLUENE ; CAS No. : 108-88-3 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	12124 mg/kg
Parameter :	LD50 ( METHYL ACETATE ; CAS No. : 79-20-9 )
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg
Exposure time :	24 h
Parameter :	LD50 ( METHANOL ; CAS No. : 67-56-1 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	17000 mg/kg

##### Acute inhalation toxicity

Parameter :	LC50 ( TOLUENE ; CAS No. : 108-88-3 )
Exposure route :	Inhalation
Species :	Mouse
Effective dose :	5320 mg/l
Exposure time :	4
Parameter :	LC50 ( METHYL ACETATE ; CAS No. : 79-20-9 )
Exposure route :	Inhalation
Species :	Rabbit
Effective dose :	49,2 - 98,4 mg/l
Exposure time :	4 h
Parameter :	LC50 ( METHANOL ; CAS No. : 67-56-1 )

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Exposure route : Inhalation  
Species : Rat  
Effective dose : 128,2 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( METHANOL ; CAS No. : 67-56-1 )  
Exposure route : Inhalation  
Species : Mouse  
Effective dose : 79,43 mg/l  
Exposure time : 134 min  
Parameter : LC50 ( METHANOL ; CAS No. : 67-56-1 )  
Exposure route : Inhalation  
Species : Cat  
Effective dose : 85,41 mg/l  
Exposure time : 4,5 h  
Parameter : LC50 ( METHANOL ; CAS No. : 67-56-1 )  
Exposure route : Inhalation  
Species : Cat  
Effective dose : 43,68 mg/l  
Exposure time : 6 h

### STOT-single exposure

Vapours may cause drowsiness and dizziness.

### Irritant and corrosive effects

#### Primary irritation to the skin

Irritant.

#### Irritation to eyes

slightly irritant

#### Irritation to respiratory tract

Not an irritant.

### Sensitisation

#### In case of skin contact

not sensitising.

#### In case of inhalation

not sensitising.

### Repeated dose toxicity (subacute, subchronic, chronic)

#### Subacute inhalation toxicity

##### STOT-repeated exposure

Central nervous system depression

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Suspected of damaging the unborn child.

### Aspiration hazard

May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

Do not allow uncontrolled discharge of product into the environment.

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter : EC50 ( TOLUENE ; CAS No. : 108-88-3 )  
Effective dose : 58 mg/l  
Exposure time : 96 h

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Parameter : LC50 ( METHYL ACETATE ; CAS No. : 79-20-9 )  
Species : Brachydanio rerio (zebra-fish)  
Effective dose : 250 - 350 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( METHANOL ; CAS No. : 67-56-1 )  
Species : Lepomis macrochirus (Bluegill)  
Effective dose : 15400 mg/l  
Exposure time : 96 h

### Chronic (long-term) fish toxicity

Parameter : NOEC ( METHANOL ; CAS No. : 67-56-1 )  
Species : Oryzias latipes (Ricefish)  
Effective dose : 7900 mg/l

### Acute (short-term) daphnia toxicity

Parameter : EC50 ( METHYL ACETATE ; CAS No. : 79-20-9 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 1026 mg/l  
Exposure time : 48 h  
Parameter : EC0 ( METHYL ACETATE ; CAS No. : 79-20-9 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 362 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( METHANOL ; CAS No. : 67-56-1 )  
Species : Daphnia magna (Big water flea)  
Effective dose : > 10000 mg/l  
Exposure time : 48 h

### Acute (short-term) algae toxicity

Parameter : EC50 ( TOLUENE ; CAS No. : 108-88-3 )  
Effective dose : > 4,33 mg/l  
Exposure time : 96 h  
Parameter : EC50 ( METHYL ACETATE ; CAS No. : 79-20-9 )  
Species : Scenedesmus subspicatus  
Effective dose : > 120 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( METHANOL ; CAS No. : 67-56-1 )  
Species : Selenastrum capricornutum  
Effective dose : 22000 mg/l  
Exposure time : 96 h

## 12.2 Persistence and degradability

Readily biodegradable (according to OECD criteria).

## 12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

## 12.4 Mobility in soil

No information 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 Other adverse effects

No information available.

## 12.7 Additional ecotoxicological information

None

## SECTION 13: Disposal considerations

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## 13.1 Waste treatment methods

### Product/Packaging disposal

Dispose according to legislation.

## SECTION 14: Transport information

### 14.1 UN number

UN 1993

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

PAINT RELATED MATERIAL · FLAMMABLE LIQUID, N.O.S. ( TOLUENE · METHYL ACETATE )

#### Sea transport (IMDG)

PAINT RELATED MATERIAL · FLAMMABLE LIQUID, N.O.S. ( TOLUENE · METHYL ACETATE )

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

FLAMMABLE LIQUID, N.O.S. ( TOLUENE · METHYL ACETATE )

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

Class(es) : 3  
Classification code : F1  
Hazard identification number (Kemler No.) : 33  
Tunnel restriction code : D/E  
Special provisions : LQ 1 I · E 2 · ADR : III (<= 450 l)  
Hazard label(s) : 3

#### Sea transport (IMDG)

Class(es) : 3  
EmS-No. : F-E / S-E  
Special provisions : LQ 1 I · E 2 · IMDG 2.3.2.3 (Packing group III <= 30 l)  
Hazard label(s) : 3

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

Class(es) : 3  
Special provisions : E 2 · IATA 3.3.3.1 (Packing group III <= 30 l)  
Hazard label(s) : 3

### 14.4 Packing group

II

### 14.5 Environmental hazards

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

Air transport (ICAO-TI / IATA-DGR) : No

### 14.6 Special precautions for user

None

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU legislation

Regulation (EC) 1907/2006 (REACH).

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Regulation (EC) No 1272/2008 (CLP).  
Regulation (EU) 2015/830 requirements for the compilation of safety data sheets.  
Amendings, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008:  
Commission Regulation (EC) No 790/2009 (I ATP). Commission Regulation (EU) No 286/2011(II ATP). Commission Regulation (EU) No 618/2012 (III ATP). Commission Regulation (EU) No 487/2013 (IV ATP). Commission Regulation (EU) No 944/2013 (V ATP). Commission Regulation (EU) No 605/2014 (VI ATP). Commission Regulation (EU) No 1297/2014 (VII ATP). Commission Regulation (EU) No 2015/1221 (VIII ATP). Commission Regulation (EU) No 2016/1179 (IX ATP). Commission Regulation 2017/776 (EU) No (X ATP). Regulation (EU) No 2018/669 (XI ATP). Regulation (EU) No 2018/669 (XI ATP). Regulation (EU) No 2018/669 (XI ATP).

### Other regulations (EU)

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]  
Classification according to Annex I, Part 1 P5c Flammable liquids

### Regulation (CE) 1907/2006: Substance of very high concern included in the SVHC Candidate List

None

### National regulations

Italy: Legislative Decree 81/2008 (Consolidated Law on protection of health and safety at work), as amended and Directive 2009/161/UE - chemical risk assessment in accordance with Title IX

### Störfallverordnung

#### For substances contained in the product

METHANOL ; CAS No. : 67-56-1 ; Category : 26

### Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : 15 - 20 %

### Water hazard class (WGK)

Class : 2 (Hazardous to water) Classification according to VwVwS

## 15.2 Chemical safety assessment

not applicable

## SECTION 16: Other information

### 16.1 Indication of changes

None

### 16.2 Abbreviations and acronyms

#### LEGENDA:

ADR:	Accord européen relative au transport international des marchandises dangereuses par route (accordo europeo relativo al trasporto internazionale delle merci pericolose su strada)
ASTM:	ASTM International, originariamente nota come American Society for Testing and Materials (ASTM)
EINECS:	European Inventory of Existing Commercial Chemical Substances (Registro Europeo delle Sostanze chimiche in Commercio)
EC(0/50/100):	Effective Concentration 0/50/100 (Concentrazione Effettiva Massima per 0/50/100% degli Individui)
LC(0/50/100):	Lethal Concentration 0/50/100 (Concentrazione Letale per 0/50/100% degli Individui)
IC50:	Inhibitor Concentration 50 (Concentrazione Inibente per il 50% degli Individui)
NOEL:	No Observed Effect Level (Dose massima senza effetti)
NOEC:	No Observed Effect Concentration (Concentrazione massima senza effetti)
LOEC:	Lowest Observed Effect Concentration (Concentrazione massima alla quale è possibile evidenziare un effetto)
DNEL:	Derived No Effect Level (Dose derivata di non effetto)
DMEL:	Derived Minimum Effect Level (Dose derivata di minimo effetto)
CLP:	Classification, Labelling and Packaging (Classificazione, Etichettatura e Imballaggio)
CSR:	Rapporto sulla Sicurezza Chimica (Chemical Safety Report)
LD(0/50/100):	Lethal Dose 0/50/100 (Dose Letale per 0/50/100% degli Individui)
IATA:	International Air Transport Association (Associazione Internazionale del Trasporto Aereo)
ICAO:	International Civil Aviation Organization (Organizzazione Internazionale dell'Aviazione Civile)
Codice IMDG:	International Maritime Dangerous Goods code (Codice sul Regolamento del Trasporto Marittimo)

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PBT:	Persistent, bioaccumulative and toxic (sostanze persistenti bioaccumulabili e tossiche)
RID:	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regolamento concernente il trasporto Internazionale ferroviario delle merci Pericolose)
STEL:	Short term exposure limit (limite di esposizione a breve termine)
TLV:	Threshold limit value (soglia di valore limite)
TWA:	Time Weighted Average (media ponderata nel tempo)
UE:	Unione Europea
vPvB:	Very persistent very bioaccumulative (sostanze molto persistenti e molto bioaccumulabili)
N.D.:	Non disponibile.
N.A.:	Non applicabile
AwSV.:	Ordinance on facilities for handling substances that are hazardous to water (Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV))
PNEC:	Predicted No Effect Concentration
PNOS:	Particulates not Otherwise Specified
BOD:	Biochemical Oxygen Demand
COD:	Chemical Oxygen Demand
BCF:	BioConcentration Factor
TRGS :	Technische Regeln für Gefahrstoffe -Technical Rules for Hazardous Substances, defined by The Federal Institute for Occupational Safety and Health, Germany
LCLo:	Lethal Concentration Low (La minima concentrazione letale)
ThOD:	Theoretical Oxygen Demand

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

calculated.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.

### 16.6 Training advice

None

### 16.7 Additional information

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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