

# Safety Data Sheet

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



**Trade name :** SYNTECH POLIUREA TOP COATING\_COMP.A  
**Revision date :** 14.11.2016  
**Print date :** 01.06.2017

**Version (Revision) :** 2.0.0 (1.0.0)

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

#### 1.1 Product identifier

SYNTECH POLIUREA TOP COATING COMP.A

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

Preparation for building and construction: Two component, pigmented elastic enamel, based on resins  
Aliphatic polyurethane. Component A

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

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

AZICHEM Srl

**Street :** Via G. Gentile, 16/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 +39 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano) (24h)

Centro Antiveleni di Pavia +39 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)

Centro Antiveleni di Bergamo +39 800 883300 (CAV Ospedali Riuniti - Bergamo)

Centro Antiveleni di Firenze +39 055 7947819 (CAV Ospedale Careggi - Firenze)

Centro Antiveleni di Roma +39 06 3054343 (CAV Policlinico Gemelli - Roma)

Centro Antiveleni di Roma +39 06 49978000 (CAV Policlinico Umberto I - Roma)

Centro Antiveleni di Napoli +39 081 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]

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

#### 2.2 Label elements

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

###### Hazard pictograms



Flame (GHS02)

###### Signal word

Warning

###### Hazard statements

H226 Flammable liquid and vapour.

H412 Harmful to aquatic life with long lasting effects.

###### Precautionary statements

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

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P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P370+P378 In case of fire: Use ... to extinguish.  
P403+P235 Store in a well-ventilated place. Keep cool.

### Special rules for supplemental label elements for certain mixtures

EUH208 Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate. May produce an allergic reaction.

## 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

2-METHOXY-1-METHYLETHYL ACETATE ; REACH registration No. : 01-2119475791-29 ; EC No. : 203-603-9; CAS No. : 108-65-6

Weight fraction :  $\geq 9 - < 30$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226  
Substance with a common (EC) occupational exposure limit value.

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC ; EC No. : 265-199-0; CAS No. : 64742-95-6

Weight fraction :  $\geq 5 - < 9$  %  
Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304

N-BUTYL ACETATE ; REACH registration No. : 01-2119485493-29 ; EC No. : 204-658-1; CAS No. : 123-86-4

Weight fraction :  $\geq 5 - < 9$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336

1,2,4-TRIMETHYLBENZENE ; EC No. : 202-436-9; CAS No. : 95-63-6

Weight fraction :  $\geq 2,5 - < 5$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 Aquatic Chronic 2 ; H411

MESITYLENE ; EC No. : 203-604-4; CAS No. : 108-67-8

Weight fraction :  $\geq 0,5 - < 1$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H335 Aquatic Chronic 2 ; H411

XYLENE ; EC No. : 215-535-7; CAS No. : 1330-20-7

Weight fraction :  $\geq 0 - < 0,5$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

ETHYLBENZENE ; EC No. : 202-849-4; CAS No. : 100-41-4

Weight fraction :  $\geq 0 - < 0,5$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H332

CUMENE ; EC No. : 202-704-5; CAS No. : 98-82-8

Weight fraction :  $\geq 0 - < 0,5$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H335 Aquatic Chronic 2 ; H411

BUTYL CELLOSOLVE ; REACH registration No. : 01-2119475108-36 ; EC No. : 203-905-0; CAS No. : 111-76-2

Weight fraction :  $\geq 0 - < 0,5$  %  
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

A MIXTURE OF BRANCHED AND LINEAR C7-C9-ALKYL -3-(3-(2H-BENZOTRIAZOL-2-YL)-5-(1,1-DIMETHYL-ETHYL)-4-HYDROXYPHENYL)PROPIONATES ; EC No. : 407-000-3; CAS No. : 127519-17-9

Weight fraction :  $\geq 0 - < 0,5$  %  
Classification 1272/2008 [CLP] : Aquatic Chronic 2 ; H411

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bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ; EC No. : 255-437-1; CAS No. : 41556-26-7  
Weight fraction :  $\geq 0,25 - < 0,5 \%$   
Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

### 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

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

The product contains highly volatile substances that can cause serious depression of the central nervous system (CNS), with effects such as drowsiness, dizziness, loss of reflexes, narcosis. Repeated exposure may cause skin dryness or cracking.

### 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

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

#### Hazardous combustion products

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

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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



### 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

2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6

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

Limit value : 50 ppm / 270 mg/m<sup>3</sup>

Peak limitation : 1(I)

Remark : Y

Version : 06.11.2015

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

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Limit value : 100 ppm / 550 mg/m<sup>3</sup>

Remark : H

Version : 08.06.2000

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

Limit value : 50 ppm / 275 mg/m<sup>3</sup>

Remark : H

Version : 08.06.2000

N-BUTYL ACETATE ; CAS No. : 123-86-4

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

Limit value : 62 ppm / 300 mg/m<sup>3</sup>

Peak limitation : 2(I)

Remark : Y

Version : 06.11.2015

1,2,4-TRIMETHYLBENZENE ; CAS No. : 95-63-6

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

Limit value : 20 ppm / 100 mg/m<sup>3</sup>

Peak limitation : 2(II)

Remark : Y

Version : 06.11.2015

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

Limit value : 20 ppm / 100 mg/m<sup>3</sup>

Version : 08.06.2000

MESITYLENE ; CAS No. : 108-67-8

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

Limit value : 20 ppm / 100 mg/m<sup>3</sup>

Peak limitation : 2(II)

Remark : Y

Version : 06.11.2015

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

Limit value : 20 ppm / 100 mg/m<sup>3</sup>

Version : 08.06.2000

CUMENE ; CAS No. : 98-82-8

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

Limit value : 10 ppm / 50 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 : 50 ppm / 250 mg/m<sup>3</sup>

Remark : H

Version : 08.06.2000

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

Limit value : 20 ppm / 100 mg/m<sup>3</sup>

Remark : H

Version : 08.06.2000

### Biological limit values

CUMENE ; CAS No. : 98-82-8

Limit value type (country of origin) : TRGS 903 ( D )

Parameter : 2-Phenyl-2-propanol / Urine (U) / End of exposure or end of shift

Limit value : 10 mg/g Kr

Version : 01.05.2015

### DNEL/DMEL and PNEC values

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### DNEL/DMEL

Limit value type : DNEL Consumer (local) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 102,34 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (local) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 859,7 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 859,7 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 102,34 mg/m<sup>3</sup>

Limit value type : DNEL worker (local) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 960 mg/m<sup>3</sup>

Limit value type : DNEL worker (local) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 480 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 960 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 480 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 38 mg/kg

Limit value type : DNEL Consumer (systemic) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 49 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Oral  
Exposure frequency : Long-term (repeated)  
Limit value : 3,2 mg/kg

Limit value type : DNEL worker (systemic) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 75 mg/kg

Limit value type : DNEL worker (systemic) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 98 mg/m<sup>3</sup>

### PNEC

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Limit value type :	PNEC aquatic, freshwater ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Limit value :	0,18 mg/l
Limit value type :	PNEC aquatic, intermittent release ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Limit value :	0,36 mg/l
Limit value type :	PNEC aquatic, marine water ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Limit value :	0,01 mg/l
Limit value type :	PNEC sediment, freshwater ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Limit value :	0,98 mg/kg
Limit value type :	PNEC sediment, marine water ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Limit value :	0,09 mg/kg
Limit value type :	PNEC Soil ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Limit value :	0,09 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Limit value :	35,6 mg/l
Limit value type :	PNEC aquatic, freshwater ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Limit value :	8,8 mg/l
Limit value type :	PNEC aquatic, intermittent release ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Limit value :	9,1 mg/l
Limit value type :	PNEC aquatic, marine water ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Limit value :	0,88 mg/l
Limit value type :	PNEC sediment, freshwater ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Limit value :	34,6 mg/kg
Limit value type :	PNEC sediment, marine water ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Limit value :	3,46 mg/kg
Limit value type :	PNEC Soil ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Limit value :	3,13 mg/kg
Limit value type :	PNEC Secondary Poisoning ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Limit value :	0,02 g/kg
Limit value type :	PNEC sewage treatment plant (STP) ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )
Limit value :	463 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



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

#### Eye/face protection

##### Suitable eye protection

Safety glasses with side shields (EN 166).

#### Skin protection

##### Hand protection

Wear rubber gloves approved under standard EN374.

#### Respiratory protection

In case of exceeding the threshold value (if available) of one or more of the substances present in the product, for daily exposure in the workplace or to a fraction established by the service of prevention and protection service, wear a mask with filter type B or universal, the class (1, 2 or 3) must be chosen according to the limit concentration of use (ref. standard EN 141).

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Safety relevant basis data

Aspect		liquid
Colour		No data available
Odour		pungent
Melting point/melting range :	( 1013 hPa )	No data available
Vapour density	( (air = 1) )	Data not available
Initial boiling point and boiling range :	( 1013 hPa )	No data available
Decomposition temperature :		No data available
Self flammability		No data available
Flash point :	>	32 °C
Flammability (solid, gas)		Data not available
Lower explosion limit :		No data available
Upper explosion limit :		No data available
Explosive properties		Data not available
Vapour pressure	( 20 °C )	No data available
Density :	( 20 °C )	1,25 - 1,35 g/cm <sup>3</sup>
Density :	( 23 °C )	No data available
Water solubility :	( 20 °C )	insoluble
pH :		No data available
Log Pow	( 20 °C )	not applicable
Viscosity :	( 20 °C )	No data available
Viscosity :	( 23 °C )	100 - 150 mPa.s
Odour threshold		Data not available
Evaporation rate		Data not available
Maximum VOC content (EC) :		Not available
Oxidizing properties		Data not available

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Flammable Vapours can form explosive mixtures with air. Ignition hazard

### 10.2 Chemical stability

See section 7. No additional measures necessary.

### 10.3 Possibility of hazardous reactions

Vapours can form explosive mixtures with air.

### 10.4 Conditions to avoid

Keep away from fire, sparks and ignition sources Avoid moisture.

### 10.5 Incompatible materials

Water. Oxidising agent. Acids. Alkali metals. Nitrates.

### 10.6 Hazardous decomposition products

Carbon monoxide.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects



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The product contains highly volatile substances that can cause serious depression of the central nervous system (CNS), with effects such as drowsiness, dizziness, loss of reflexes, narcosis.

### Acute oral toxicity

Parameter : LD50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 6190 mg/kg  
Parameter : LD50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Oral  
Species : Rat  
Effective dose : = 10760 mg/kg  
Parameter : LD50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 8700 mg/kg  
Parameter : LD50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 3500 mg/kg  
Parameter : LD50 ( CUMENE ; CAS No. : 98-82-8 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 1400 mg/kg  
Parameter : LD50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Oral  
Species : Rat  
Effective dose : = 1746 mg/kg

### Acute dermal toxicity

Parameter : LD50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 5000 mg/l  
Parameter : LD50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 14000 mg/kg  
Parameter : LD50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : = 6411 mg/kg  
Parameter : LD50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 2000 mg/kg  
Parameter : LD50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 5000 mg/kg

### Acute inhalation toxicity

Parameter : LC0 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Exposure route : Inhalation  
Species : Mouse  
Effective dose : > 10 mg/m<sup>3</sup>  
Exposure time : 3 h

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Parameter : LC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 21,1 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 6350 mg/l  
Parameter : LC50 ( CUMENE ; CAS No. : 98-82-8 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 8000 ppm  
Parameter : LC50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : = 450 ppm  
Exposure time : 4 h

### Irritant and corrosive effects

Repeated exposure may cause skin dryness or cracking.

### Sensitisation

#### In case of inhalation

Not sensitising

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

#### Chronic inhalation toxicity

There were no chronic effects or effects at low concentrations.

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

The ingredients in this mixture do not meet the criteria for classification as CMR according to CLP.

## 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 : LC50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Effective dose : 134 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Species : Oryzias latipes (Ricefish)  
Effective dose : 63,5 mg/l  
Exposure time : 14 days  
Parameter : LC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Pimephales promelas (fathead minnow)  
Effective dose : 18 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Effective dose : 1474 mg/l  
Exposure time : 96 h

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### Chronic (long-term) fish toxicity

Parameter : NOEC ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Effective dose : 100 mg/l  
Exposure time : 96 h  
Parameter : NOEC ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Effective dose : 47,5 mg/l  
Exposure time : 14 days

### Acute (short-term) daphnia toxicity

Parameter : EC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 44 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 1550 mg/l  
Exposure time : 48 h

### Acute (short-term) algae toxicity

Parameter : EC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Desmodesmus subspicatus  
Effective dose : 648 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( BUTYL CELLOSOLVE ; CAS No. : 111-76-2 )  
Species : Pseudokirchneriella subcapitata  
Effective dose : 911 mg/l  
Exposure time : 72 h

## 12.2 Persistence and degradability

No information available.

## 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Other adverse effects

No information available.

## 12.7 Additional ecotoxicological information

None

## SECTION 13: Disposal considerations

### 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

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### Land transport (ADR/RID)

PAINTS · FLAMMABLE LIQUID, N.O.S. ( 2-METHOXY-1-METHYLETHYL ACETATE · N-BUTYL ACETATE )

### Sea transport (IMDG)

PAINTS · FLAMMABLE LIQUID, N.O.S. ( 2-METHOXY-1-METHYLETHYL ACETATE · N-BUTYL ACETATE )

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

PAINTS · FLAMMABLE LIQUID, N.O.S. ( 2-METHOXY-1-METHYLETHYL ACETATE · N-BUTYL ACETATE )

## 14.3 Transport hazard class(es)

### Land transport (ADR/RID)

Class(es) : 3  
Classification code : F1  
Hazard identification number (Kemler No.) : 30  
Tunnel restriction code : D/E  
Special provisions : 640E · LQ 7 · LQ 5 I · E 1  
Hazard label(s) : 3

### Sea transport (IMDG)

Class(es) : 3  
EmS-No. : F-E / S-E  
Special provisions : LQ 5 I · E 1  
Hazard label(s) : 3

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

Class(es) : 3  
Special provisions : E 1  
Hazard label(s) : 3

## 14.4 Packing group

III

## 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/CE (REACH). Regulation (EC) No 1272/2008 (CLP). Regulation (EU) 2015/830 requirements for the compilation of safety data sheets. Commission Regulation (EC) No 790/2009/CE (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 286/2011 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 618/2012 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 487/2013 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 758/2013 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 944/2013 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008). Commission Regulation (EU) No 605/2014 (amending, for the purposes of its adaptation to technical and scientific progress (ATP),

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Regulation (EC) No 1272/2008). Commission Regulation (EU) No 1297/2015 (amending, for the purposes of its adaptation to technical and scientific progress (ATP), Regulation (EC) No 1272/2008).

### Other regulations (EU)

**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

### 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

02. Classification of the substance or mixture · 02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Special rules for supplemental label elements for certain mixtures · 03. Hazardous ingredients · 14. UN proper shipping name - Land transport (ADR/RID) · 14. UN proper shipping name - Sea transport (IMDG) · 14. UN proper shipping name - Air transport (ICAO-TI / IATA-DGR) · 14. Transport hazard class(es) - Land transport (ADR/RID) · 14. Transport hazard class(es) - Sea transport (IMDG) · 14. Transport hazard class(es) - Air transport (ICAO-TI / IATA-DGR)

### 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)
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

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VwWwS.: Text of Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes (Verwaltungsvorschrift wassergefährdende Stoffe – VwWwS)  
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.  
H226 Flammable liquid and vapour.  
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.  
H304 May be fatal if swallowed and enters airways.  
H312+H332 Harmful in contact with skin or if inhaled.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

### 16.6 Training advice

None

### 16.7 Additional information

None

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.