Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (CE) 453/2010

Trade Name :	FEST SALZ		OSMOCEM AC
Code:	CSX.0040		13.02.01
Revision date :	25.02.2014	**Version :**	**1.0.0**
Date of print:	12.08.2015		

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

1.1 Product identifier

FEST SALZ (CSX.0040)

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

Relevant identified uses

Building and construction preparations: Organosilossanic salt-resistant transparent inhibitor

1.3 Details of the supplier of the safety data sheet

Producer/supplier :	AZICHEM S.r.l.
Street :	Via G. Gentile, 16/A
Postal code/city:	46044 GOITO (MN) Italy
Telephone :	+39 0376 604185/604365
Fax :	+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 Directive 67/548/EEC or 1999/45/EC

Flammable. · Harmful: may cause lung damage if swallowed.
R 10 · Xn ; R 65 · R 67 · R 66

2.2 Label elements

Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols and hazard statements of dangerous substances and preparations

Xn ; Harmful

R-phrases

10	Flammable.
65	Harmful: may cause lung damage if swallowed.
67	Vapours may cause drowsiness and dizziness.
66	Repeated exposure may cause skin dryness or cracking.

S-phrases

62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
35	This material and its container must be disposed of in a safe way.
51	Use only in well-ventilated areas.
24	Avoid contact with skin.

2.3 Other hazards

None

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Hazardous ingredients

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS,

Weight fraction :	80 - 100 %
Classification 67/548/EEC :	R10 Xn ; R65 R67 R66

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H336

ETHYL ACETATE ; REACH registration No. : 01-2119475103-46 ; EC No. : 205-500-4; CAS No. : 141-78-6

Weight fraction : 5 - 10 %
Classification 67/548/EEC : F ; R11 Xi ; R36 R67 R66
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

XYLENE ; REACH registration No. : 01-2119488216-32 ; EC No. : 215-535-7; CAS No. : 1330-20-7

Weight fraction : 1 - 5 %
Classification 67/548/EEC : R10 Xn ; R20/21 Xi ; R38
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315

METHANOL ; REACH registration No. : 01-2119433307-44 ; EC No. : 200-659-6; CAS No. : 67-56-1

Weight fraction : 0,5 - 1 %
Classification 67/548/EEC : F ; R11 T ; R39/23/24/25 T ; R23/24/25
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 R-, H- and EUH-phrases: 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.

In case of 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

Do NOT induce vomiting. Seek medical advice immediately. 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

Vapours may cause drowsiness and dizziness. 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

Open and handle container with care. Flammable In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Vapours can form explosive mixtures with air. Use water spray jet to protect personnel and to cool endangered containers. Provide earthing of containers, equipment, pumps and ventilation facilities. Take precautionary measures against static discharge.

5.1 Extinguishing media

Suitable extinguishing media

Suitable extinguishing media Water mist alcohol resistant foam Carbon dioxide (CO2)

5.2 Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Hazardous combustion products

In case of fire may be liberated: Pyrolysis products, toxic

5.3 Advice for firefighters

Remove persons to safety.

Special protective equipment for firefighters

Do not inhale explosion and combustion gases. In case of fire: Wear self-contained breathing apparatus.

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. Wear a self-contained breathing apparatus and chemical protective clothing. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

For non-emergency personnel

Remove persons to safety.

For emergency responders

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

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

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Keep away from sources of ignition. - No smoking.

Specific requirements or handling rules

Do not breathe dust. Do not breathe gas/fumes/vapour/spray. See chapter 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. Use only in well-ventilated areas.

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

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

ETHYL ACETATE ; CAS No. : 141-78-6

Limit value type (country of origin) :	TRGS 900 (D)
Limit value :	400 ppm / 1500 mg/m^3
Peak limitation :	2(I)
Remark :	Y

Version :	01.09.2012

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) :	TRGS 900 (D)
Limit value :	100 ppm / 440 mg/m^3
Peak limitation :	2(II)
Remark :	H
Version :	01.09.2012
Limit value type (country of origin) :	STEL (EC)
Limit value :	100 ppm / 442 mg/m^3
Remark :	H
Version :	08.06.2000
Limit value type (country of origin) :	TWA (EC)
Limit value :	50 ppm / 221 mg/m^3
Remark :	H
Version :	08.06.2000

METHANOL ; CAS No. : 67-56-1

Limit value type (country of origin) :	TRGS 900 (D)
Limit value :	200 ppm / 270 mg/m^3
Peak limitation :	4(II)
Remark :	H, Y
Version :	01.09.2012
Limit value type (country of origin) :	TWA (EC)
Limit value :	200 ppm / 260 mg/m^3
Remark :	H
Version :	07.02.2006

Biological limit values

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) :	TRGS 903 (D)
Parameter :	Xylene / Whole blood (B) / End of exposure or end of shift
Limit value :	1,5 mg/l
Version :	31.03.2004
Limit value type (country of origin) :	TRGS 903 (D)
Parameter :	Methylhippuric acid / Urine (U) / End of exposure or end of shift
Limit value :	2 g/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/DMEL (DNEL Consumer, Systemic) (HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS,
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	125 mg/kg
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) (HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS,
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	185 mg/m^3
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) (HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS,
Exposure route :	Oral

Exposure frequency :	Long-term (repeated)
Limit value :	125 mg/kg
Limit value type :	DNEL/DMEL (Worker, Systemic) (HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS,
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	208 mg/kg
Limit value type :	DNEL/DMEL (Worker, Systemic) (HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS,
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	871 mg/m^3
Limit value type :	DNEL/DMEL (DNEL Consumer, Local) (ETHYL ACETATE ; CAS No. : 141-78-6)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	367 mg/m^3
Limit value type :	DNEL/DMEL (DNEL Consumer, Local) (ETHYL ACETATE ; CAS No. : 141-78-6)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	734 mg/m^3
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) (ETHYL ACETATE ; CAS No. : 141-78-6)
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	4,5 mg/kg
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) (ETHYL ACETATE ; CAS No. : 141-78-6)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	734 mg/m^3
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) (ETHYL ACETATE ; CAS No. : 141-78-6)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	37 mg/kg
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) (ETHYL ACETATE ; CAS No. : 141-78-6)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	367 mg/m^3
Limit value type :	DNEL/DMEL (Worker, Local) (ETHYL ACETATE ; CAS No. : 141-78-6)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	1468 mg/m^3
Limit value type :	DNEL/DMEL (Worker, Local) (ETHYL ACETATE ; CAS No. : 141-78-6)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	734 mg/m^3
Limit value type :	DNEL/DMEL (Worker, Systemic) (ETHYL ACETATE ; CAS No. : 141-78-6)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	1468 mg/m^3
Limit value type :	DNEL/DMEL (Worker, Systemic) (ETHYL ACETATE ; CAS No. : 141-78-6)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	63 mg/kg
Limit value type :	DNEL/DMEL (Worker, Systemic) (ETHYL ACETATE ; CAS No. : 141-78-6)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	734 mg/m^3
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) (XYLENE ; CAS No. : 1330-20-7)

Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	108 mg/kg
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	14,8 mg/m^3
Limit value type :	DNEL/DMEL (DNEL Consumer, Systemic) (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	1,6 mg/kg
Limit value type :	DNEL/DMEL (Worker, Local) (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	289 mg/kg
Limit value type :	DNEL/DMEL (Worker, Systemic) (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	180 mg/kg
Limit value type :	DNEL/DMEL (Worker, Systemic) (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	77 mg/m^3
Limit value type :	DNEL/DMEL (DNEL Consumer, Local) (METHANOL ; CAS No. : 67-56-1)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	50 mg/m^3
Limit value type :	DNEL/DMEL (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/DMEL (DNEL Consumer, Systemic) (METHANOL ; CAS No. : 67-56-1)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	50 mg/m^3
Limit value type :	DNEL/DMEL (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/DMEL (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/DMEL (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/DMEL (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/DMEL (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/DMEL (Worker, Local) (METHANOL ; CAS No. : 67-56-1)
Exposure route :	Inhalation

Exposure frequency :	Short-term (acute)
Limit value :	260 mg/m^3
Limit value type :	DNEL/DMEL (Worker, Systemic) (METHANOL ; CAS No. : 67-56-1)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	260 mg/m^3
Limit value type :	DNEL/DMEL (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/DMEL (Worker, Systemic) (METHANOL ; CAS No. : 67-56-1)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	260 mg/m^3

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

Eye glasses with side protection

Skin protection

Hand protection

Tested protective gloves must be worn

Remark : When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Respiratory protection

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Remark

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Safety relevant basis data

Appearance :			liquid	
Odour :			characteristic	
Aspect			clear liquid	
Colour			colourless	
Melting point/melting range :	(1013 hPa)		No data available	
Freezing point :			No data available	
Vapour density	((air = 1))	>	1	
Boiling temperature/boiling range :	(1013 hPa)		No data available	
Decomposition temperature :			No data available	
Self flammability			No data available	
Flash point :		>	23	°C
Ignition temperature :			No data available	
Lower explosion limit :			No data available	
Upper explosion limit :			No data available	

Explosive properties :			No data available.	
Explosive properties			Data not available	
Vapour pressure	(20 °C)		No data available	
Density :	(20 °C)	ca.	0,79	g/cm^3
Relative density :	(20 °C)		No data available	
Water solubility :	(20 °C)		insoluble	
PH value :			not applicable	
Log Pow	(20 °C)		not applicable	
Viscosity :	(20 °C)		No data available	
Odour threshold			Data not available	
Odour threshold :			No data available	
Relative vapour density :	(20 °C)		No data available	
Evaporation rate :			No data available	
Evaporation rate			No data available	
Maximum VOC content (EC) :			94,5	Wt %
Oxidizing properties			Not oxidising	

9.2 Other information
None

SECTION 10: Stability and reactivity

10.1 Reactivity
Flammable product.

10.2 Chemical stability
See section 7. No additional measures necessary.

10.3 Possibility of hazardous reactions
No information available.

10.4 Conditions to avoid
Take precautionary measures against static discharge. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

10.5 Incompatible materials
Oxiding substances.

10.6 Hazardous decomposition products
Flammable In case of fire may be liberated: Hazardous combustion products

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute effects

Acute oral toxicity

Parameter :	LD50 (HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS,
Exposure route :	Oral
Effective dose :	> 5000 mg/kg
Parameter :	LD50 (ETHYL ACETATE ; CAS No. : 141-78-6)
Exposure route :	Oral
Species :	Rabbit
Effective dose :	4935 mg/kg
Parameter :	LD50 (ETHYL ACETATE ; CAS No. : 141-78-6)
Exposure route :	Oral
Species :	Rat
Effective dose :	11,3 g/kg
Parameter :	LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Oral
Species :	mouse (male)
Effective dose :	= 5627 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 (HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS,
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 5000 mg/kg
Parameter :	LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 5000 ml/kg
Parameter :	LD50 (METHANOL ; CAS No. : 67-56-1)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	= 17000 mg/kg

Acute inhalation toxicity

Parameter :	LC50 (HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS,
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 4951 mg/m^3
Parameter :	LC50 (ETHYL ACETATE ; CAS No. : 141-78-6)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	1600 mg/l
Parameter :	LC50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	= 20 mg/l
Exposure time :	4 h
Parameter :	LC50 (METHANOL ; CAS No. : 67-56-1)
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

Irritant and corrosive effects

Primary irritation to the skin

Not irritant

Irritation to eyes

Not irritant

Irritation to respiratory tract

Not irritant

Sensitisation

Sensitizer effect are not known.

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute inhalation toxicity
Harmful by inhalation.
Chronic inhalation toxicity
No data available.
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

Parameter :	EC50 (METHANOL ; CAS No. : 67-56-1)
Species :	Aquatic micro-organisms
Effective dose :	= 20000 mg/l
Exposure time :	15 h
Parameter :	EC50 (METHANOL ; CAS No. : 67-56-1)
Species :	Aquatic micro-organisms
Effective dose :	= 71700 mg/l
Exposure time :	3 min
Parameter :	EC0 (HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS,
Species :	Daphnia
Effective dose :	1000 mg/l
Exposure time :	48 h
Parameter :	EC50 (HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS,
Species :	Algae
Evaluation parameter :	Pseudokirchneriella subcapitata
Effective dose :	> 1000 mg/l
Exposure time :	72 h
Parameter :	EC50 (ETHYL ACETATE ; CAS No. : 141-78-6)
Species :	Daphnia
Evaluation parameter :	Daphnia magna
Effective dose :	3090 mg/l
Exposure time :	24 h
Parameter :	EC50 (XYLENE ; CAS No. : 1330-20-7)
Species :	Daphnia
Evaluation parameter :	Daphnia magna
Effective dose :	= 1 mg/l
Exposure time :	24 h
Parameter :	ErC50 (XYLENE ; CAS No. : 1330-20-7)
Species :	Algae
Evaluation parameter :	Pseudokirchneriella subcapitata
Effective dose :	= 4,36 mg/l
Exposure time :	73 h
Parameter :	EC50 (METHANOL ; CAS No. : 67-56-1)
Species :	Daphnia
Evaluation parameter :	Daphnia magna
Effective dose :	> 10000 mg/l
Exposure time :	48 h
Parameter :	EC50 (METHANOL ; CAS No. : 67-56-1)
Species :	Algae
Evaluation parameter :	Selenastrum capricornutum
Effective dose :	= 22000 mg/l
Exposure time :	96 h
Parameter :	NOEC (METHANOL ; CAS No. : 67-56-1)
Species :	Fish

Evaluation parameter : Oryzias latipes
Effective dose : = 7900 mg/l

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 Further ecological information
None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal
Dispose according to legislation.

Waste treatment options

Appropriate disposal / Package
Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number
UN 1993

14.2 UN proper shipping name

Land transport (ADR/RID)
FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS,

Sea transport (IMDG)
FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS,

Air transport (ICAO-TI / IATA-DGR)
FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS,

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 · E 1
Hazard label(s) :	3

Sea transport (IMDG)

Class(es) :	3
EmS-No. :	F-E / S-E
Special provisions :	LQ 5 l · 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 73/78 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

Directive 67/548/CEE (Dangerous substances classification, labelling and packaging) and subsequent amendements.
Directive 1999/45/CE (Dangerous peparations classification, labelling and packaging) and subsequent amendements.
Regulation n°. 1907/2006/CE (REACh).
Regulation n°. 1272/2008/CE (CLP).
Regulation n°. 790/2009/CE (ramending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008)

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 Product subject to D.lgs. 21 september 2005 n. 238 (Annex A part 2).

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) : < 5 %

Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to VwVwS

15.2 Chemical Safety Assessment

No information available.

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 0/50100% degli Individui)
LC(0/50/100):	Lethal Concentration 0/50/100 (Concentrazione Letale per 0/50100% 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 concernent 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
VwVwS.:	Text of Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes (Verwaltungsvorschrift wassergefährdende Stoffe – VwVwS)
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) 1272/2008 [CLP]

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

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

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

Hazard pictograms

Flame (GHS02)

Signal word

Warning

Hazard statements

H226	Flammable liquid and vapour.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P403+P235	Store in a well-ventilated place. Keep cool.

Supplemental Hazard information (EU)

EUH066	Repeated exposure may cause skin dryness or cracking.

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

H225	Highly flammable liquid and vapour.
H226	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.
H312+H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H370	Causes damage to organs.
10	Flammable.
11	Highly flammable.
20/21	Harmful by inhalation and in contact with skin.
23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
36	Irritating to eyes.
38	Irritating to skin.
39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

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.