

# Safety Data Sheet

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



Trade name : CONSILEX INJECT MAUER  
Revision date : 11.05.2017  
Print date : 12.05.2017

Version (Revision) : 2.0.0 (1.0.0)

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

#### 1.1 Product identifier

CONSILEX INJECT MAUER

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

Preparation for Construction and Construction: One-component silane modified microemulsion for the construction of slow diffusion anti-hyaluretic barriers.

#### 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 +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]

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.  
Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.  
Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

#### 2.2 Label elements

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

###### Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

###### Signal word

Warning

###### Hazard components for labelling

SILSESQUIOXANES,3-[(2-AMINOETHYL)AMINO]PROPYL METIL, METHOXY - TERMINATED ; CAS No. : 145775-27-5

###### Hazard statements

H226 Flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

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### 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.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P235	Store in a well-ventilated place. Keep cool.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

SILSESQUIOXANES,3-[(2-AMINOETHYL)AMINO]PROPYL METIL, METHOXY - TERMINATED ; CAS No. : 145775-27-5

Weight fraction :  $\geq 45 - < 50$  %

Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319

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

Weight fraction :  $\geq 1 - < 3$  %

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

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

On contact with moist skin may cause thickening, cracking and cracking of the skin. Prolonged contact in combination with existing abrasions can cause burns. Direct contact with the product may cause corneal injury due to mechanical stress, immediate or delayed irritation or inflammation. The direct contact with large quantities of product dry or with projections of wet product can cause effects ranging from irritation ocular moderate (eg. Conjunctivitis or blepharitis) to chemical burns and blindness. May cause an allergic skin reaction.

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

None

## SECTION 5: Firefighting measures

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### 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

None

### 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



### 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

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### 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

METHANOL ; CAS No. : 67-56-1

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

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 (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

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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)
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>

## 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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Safety relevant basis data

<b>Appearance :</b>	liquid
<b>Odour :</b>	odourless
<b>Colour</b>	colourless
<b>Melting point/melting range :</b>	( 1013 hPa ) No data available

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Freezing point :		No data available
Vapour density	(( air = 1 ) >	1
Initial boiling point and boiling range :	( 1013 hPa )	100 °C
Decomposition temperature :		No data available
Self flammability		No data available
Flash point :		35 °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 )	1,05 g/cm <sup>3</sup>
Relative density :	( 20 °C )	No data available
Water solubility :	( 20 °C )	Soluble
pH :		not applicable
Log Pow	( 20 °C )	not applicable
Viscosity :	( 20 °C )	15 mPa.s
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		Data not available
Maximum VOC content (EC) :		Not available
Oxidizing properties		Not oxidising

## 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 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

No information available.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

No information available.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter :	LD50
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg

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Parameter : LD50 ( METHANOL ; CAS No. : 67-56-1 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 1187 - 2769 mg/kg

### Acute dermal toxicity

Parameter : LD50  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( METHANOL ; CAS No. : 67-56-1 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : = 17000 mg/kg

It has no significant toxicity properties.

### Acute inhalation toxicity

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

On contact with moist skin may cause thickening, cracking and cracking of the skin. Prolonged contact in combination with existing abrasions can cause burns.

#### Irritation to eyes

Direct contact with the product may cause corneal injury due to mechanical stress, immediate or delayed irritation or inflammation. The direct contact with large quantities of product dry or with projections of wet product can cause effects ranging from irritation ocular moderate (eg. Conjunctivitis or blepharitis) to chemical burns and blindness.

#### Irritation to respiratory tract

Not an irritant.

### Sensitisation

#### In case of skin contact

May produce an allergic reaction.

#### 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.

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### 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 ( 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 ( 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 ( METHANOL ; CAS No. : 67-56-1 )  
Species : Selastrum capricornutum  
Effective dose : 22000 mg/l  
Exposure time : 96 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



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### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

FLAMMABLE LIQUID, N.O.S.

#### Sea transport (IMDG)

FLAMMABLE LIQUID, N.O.S.

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

FLAMMABLE LIQUID, N.O.S.

### 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 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

### 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 : nwg (Non-hazardous to water) Classification according to VwVwS

## 15.2 Chemical safety assessment

not applicable

## SECTION 16: Other information

### 16.1 Indication of changes

03. Hazardous ingredients · 14. Transport hazard class(es) - Land transport (ADR/RID)

### 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.

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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) 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.  
H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H370 Causes damage to organs.

### 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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