

# Safety Data Sheet

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



Trade name : CONSILEX ANTIMOULD REMOVER  
Revision date : 28.04.2017  
Print date : 25.05.2017

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 ANTIMUFFA REMOVER

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

#### Relevant identified uses

Preparation for building and construction: algicide solution, antifouling, anti-bacterial, antibacterial, ecological, biodegradable.

#### Uses advised against

Uses different from those above mentioned.

### 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]

Aquatic Acute 1 ; H400 - Hazardous to the aquatic environment : Acute 1 ; Very toxic to aquatic life.

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

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

### 2.2 Label elements

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

##### Hazard pictograms



Corrosion (GHS05) · Environment (GHS09)

##### Signal word

Danger

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### Hazard statements

H318 Causes serious eye damage.  
H315 Causes skin irritation.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

P264 Wash hands thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P310 Immediately call a POISON CENTER/doctor  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYLDIMETHYL CHLORITE ; REACH registration No. : 01-2119965180-41 ; EC No. : 939-253-5

Weight fraction :  $\geq 3 - < 5 \%$   
Classification 1272/2008 [CLP] : Skin Corr. 1A ; H314 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400 (M=10)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

Risk of serious damage to eyes. 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

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### Suitable extinguishing media

Extinguishing powder alcohol resistant foam Carbon dioxide (CO2) Water mist

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

#### Hazardous combustion products

not applicable

### 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 : 12

Storage class (TRGS 510) : 12

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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

#### DNEL/DMEL and PNEC values

##### DNEL/DMEL

Limit value type :	DNEL Consumer (systemic) ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYLDIMETHYL CHLORITE )
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	3,4 mg/kg/day
Limit value type :	DNEL Consumer (systemic) ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYLDIMETHYL CHLORITE )
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	3,4 mg/kg/day
Limit value type :	DNEL Consumer (systemic) ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYLDIMETHYL CHLORITE )
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	1,64 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYLDIMETHYL CHLORITE )
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	5,7 mg/kg/day
Limit value type :	DNEL worker (systemic) ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYLDIMETHYL CHLORITE )
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	3,96 mg/m <sup>3</sup>

##### PNEC

Limit value type :	PNEC aquatic, freshwater ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYLDIMETHYL CHLORITE )
Limit value :	0,0009 mg/l
Limit value type :	PNEC aquatic, intermittent release ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYLDIMETHYL CHLORITE )
Limit value :	0,00016 mg/l
Limit value type :	PNEC aquatic, marine water ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYLDIMETHYL CHLORITE )
Limit value :	0,00009 mg/l
Limit value type :	PNEC sediment, freshwater ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYLDIMETHYL CHLORITE )
Limit value :	12,27 mg/kg
Limit value type :	PNEC sediment, marine water ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYLDIMETHYL CHLORITE )
Limit value :	1,22 mg/kg
Limit value type :	PNEC Soil ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR)

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Limit value : ALKYLDIMETHYL CHLORITE )  
7 mg/kg  
Limit value type : PNEC sewage treatment plant (STP) ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYLDIMETHYL CHLORITE )  
Limit value : 0,4 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

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

Usually no personal respiratory protection necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Safety relevant basis data

Aspect				liquid
Colour				greenish / brown
Odour				none
Melting point/melting range :	( 1013 hPa )	<		0 °C
Vapour density	(( air = 1 ) )			Data not available
Initial boiling point and boiling range :	( 1013 hPa )	>		100 °C
Decomposition temperature :				No data available
Self flammability				Not selfigniting
Flash point :				Not flammable
Flammability (solid, gas)				Data not available
Lower explosion limit :				No data available
Upper explosion limit :				No data available
Explosive properties				Data not available
Density :	( 20 °C )	approx.		1 g/cm <sup>3</sup>
Density :	( 23 °C )			No data available
Water solubility :	( 20 °C )			miscibility
pH :		approx.		7
Log Pow	( 20 °C )			Not available
Viscosity :	( 20 °C )			No data available
Viscosity :	( 23 °C )			No data available
Odour threshold				Data not available
Evaporation rate				Data not available
Oxidizing properties				Not oxidising

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## 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product is stable.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions. See section 7. No additional measures necessary.

### 10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled properly.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

None

### 10.6 Hazardous decomposition products

None

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter : LD50 ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYL DIMETHYL CHLORITE )  
Exposure route : Oral  
Species : Rat  
Effective dose : 344 mg/kg

##### Acute dermal toxicity

Parameter : LD50 ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYL DIMETHYL CHLORITE )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 3412 mg/kg

#### Irritant and corrosive effects

##### Primary irritation to the skin

Irritant.

##### Irritation to eyes

Risk of serious damage to eyes.

##### Irritation to respiratory tract

Not an irritant.

#### Sensitisation

##### In case of skin contact

No known sensitizing effect.

##### In case of inhalation

No known sensitizing effect.

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

##### Chronic inhalation toxicity

None

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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

No data available

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

Parameter : LC50 ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYLDIMETHYL CHLORITE )

Effective dose : 0,515 mg/l

Exposure time : 96 h

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

Parameter : EC50 ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES ; CAS No. : 68424-85-1 )

Species : Daphnia

Effective dose : = 0,01 mg/l

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

Parameter : EC50 ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYLDIMETHYL CHLORITE )

Effective dose : 0,03 mg/l

Exposure time : 48 h

#### Chronic (long-term) algae toxicity

Parameter : NOEC ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYLDIMETHYL CHLORITE )

Effective dose : 0,009 mg/l

### 12.2 Persistence and degradability

Readily biodegradable (according to OECD criteria).

#### Biodegradation

Parameter : Biodegradation ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYLDIMETHYL CHLORITE )

Evaluation : Readily biodegradable (according to OECD criteria).

### 12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This product is none, or does not contain a substance called a PBT or vPvB

### 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.

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### SECTION 14: Transport information

#### 14.1 UN number

UN 3082

#### 14.2 UN proper shipping name

##### Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYL DIMETHYL CHLORITE )

##### Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYL DIMETHYL CHLORITE )

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

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( QUATERNARY AMMONIUM COMPOUNDS, BENZYL C12-16- (EVEN NR) ALKYL DIMETHYL CHLORITE )

#### 14.3 Transport hazard class(es)

##### Land transport (ADR/RID)

Class(es) : 9  
Classification code : m7  
Hazard identification number (Kemler No.) : 90  
Tunnel restriction code : E  
Special provisions : LQ 5 | · E 1  
Hazard label(s) : 9 / N

##### Sea transport (IMDG)

Class(es) : 8  
EmS-No. : F-A / S-B  
Hazard label(s) : 9 / N

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

Class(es) : 9  
Hazard label(s) : 9 / N

#### 14.4 Packing group

III

#### 14.5 Environmental hazards

Land transport (ADR/RID) : Yes  
Sea transport (IMDG) : Yes (P)  
Air transport (ICAO-TI / IATA-DGR) : Yes

#### 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



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### 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 : 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

02. Classification of the substance or mixture · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 03. Hazardous ingredients

### 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)

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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) No 1272/2008 [CLP]

calculated.

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

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.

### 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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