

EMS/F/02/01 w.e.f. 01.01.2013

Rev.: 02

Next Revision Due: Jan 2015

Material Safety Data Sheet

METHOXY ACETYL CHLORIDE

Section 1 - Product and Company Information

Substance : Methoxy Acetyl Chloride Trade Name : Methoxy Acetyl Chloride

Chemical Family : Acid Chloride

Company : Shiva Pharmachem Ltd.

Plot No. 588,

Village: Luna - 391440

Taluka: Padra

District: Vadodara, Gujarat

India

Phone No. : + 91 -2662 221021 / 224360

Fax No. : +91 2662 223314

Section 2 – Hazards Identification

2.1 Classification of the substances or mixture

Classification according to regulations (EC) no 1272 / 2008

Flammable liquid (Category 3), Skin Corrosion, (Category 1B), Acute toxicity, inhalation, (category 3),

Eye irritation (Category 2), Specific target organ toxicity – single exposure (category 3).

Classification according to EU directives67/548/EEC or 1999/45/EC

Flammable. Reacts violently with water. Irritating to eye, respiratory system and skin. Causes burn. Toxic if inhaled. Moisture sensitive.

2.2 Labeling elements

Labeling according to EC 1272 / 2008 (CLP)

Pictogram



Danger





Single word Hazard Elements

H226 Flammable liquid and vapour.

H314 Causes severe skin burn and eye damage.

H319 Causes serious eye irritation.

H331 toxic if inhaled.

Precautionary statements

P210 Keep away from heat/spark/open flame/hot surface - No smoking.

P243 Take precautionary measures against static charge.

P261 Avoid breathing dust/foam/mist/spray.

P281 Use personal protective equipment as required.
P305 + P351 + P338 IF IN EYES: Rinse cautiously for several minutes.

P309 If exposed or if you feel unwell: P310 Immediately call physician.



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P403 + P235Store in a well ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents / container accordance with the local /regional/

national / international regulation.

According to EU directives 67/548/EEC as amended

Hazard symbol(s)

R PHRASE (s)

R10 Flammable.

R20 Harmful by inhalation.

R34 Causes burn.

S PHRASE (s)

S26 In case of contact with eyes rinse immediately with plenty of

water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45

In case of accident or you feel unwell, seek medical advice. (Show

the label where possible)

2.3 Other hazard

None

Section 3 – Composition / Information on Ingredients

Product Name	CAS No.	EC No.	Mol. Formula	Mol. Weight
Methoxy Acetyl Chloride	38870-89-2	254-169-2	C ₃ H ₅ CIO ₂	108.50 g/mol

Classification: Flam liq. 3; acute tox. 3; Eye irritation, 2; Skin corr. 1B; STOT SE3; H226, H314, H319, H331

C; T; R10, R20, R34

Section 4 - First Aid Measures

GENERAL INFORMATION

Immediately remove any clothing soiled by the product.

INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

EYE CONTACT

Assure adequate flushing of the eyes by separating the eyelids with fingers.

SWALLOWING

If swallowed, wash out mouth with water provided person is conscious. Call a physician.



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Section 5 – Fire Fighting Measures

CONDITIONS OF FLAMMABILITY

Water hydrolyzes material liberating acidic gas which in contact with metal surfaces can generate flammable and/or explosive hydrogen gas.

EXTINGUISHING MEDIA

Suitable: Carbon dioxide. Dry chemical powder.

Unsuitable: Do not use water.

SPECIAL RISKS

Specific Hazard(s): Flammable liquid. Vapor may travel considerable distance to source of ignition

and flash back. Emits toxic fumes under fire conditions.

Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 – Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area. Shut off all sources of ignition.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors.

Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not allow to get in eyes, on skin and on clothing. Avoid prolonged or repeated exposure. Open carefully.

STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat, sparks, and open flame. Store at 25 – 35 °C and well protected with inert gas like dry nitrogen. Can also be stored at 2 - 8 °C.

SPECIAL REQUIREMENTS:

May develop pressure. Open carefully. Moisture sensitive.



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Section 8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Use only in a chemical fume hood. Safety shower and eye bath.

GENERAL HYGIENE MEASURES

Remove and wash contaminated clothing promptly. Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Special Protective Measures: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Face shield (8-inch minimum).

Section 9 - Physical and Chemical Properties

Appearance Color : Light yellow : Clear liquid Form Hq : Acidic

BP/BP Range : 112.0 - 113.0 °C 760 mmHg

MP/MP Range : Not applicable

Flash Point : 28 °C Method: closed cup

: Flammable Flammability Auto ignition Temp : 440 °C

: Data not available **Explosive Properties Explosion Limits** : Data not available Vapor Pressure : 22 mm Hg (25 °C) : 1.19 g/cm³ at 20°C SG/Density

Solvent Content

Water Content : Not applicable, react with water.

: Miscible with organic solvents like toluene, methylene Solubility

chloride, ethylene chloride etc

Section 10 - Stability and Reactivity

CHEMICAL STABILITY: Stable under recommended storage conditions.

Conditions to Avoid: Light, excess heat, ignition source, contact with water, Alcohols, Oxidizing agents, Strong bases.

Material to Avoid: Water, moisture, strong bases, alcohol.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Hydrogen chloride gas.

Section 11 - Toxicological Information

ACUTE TOXICITY: LD50 Oral 2456 mg/kg (rat)

LD50 Dermal > 2000 mg/kg (rat)

LD50 Inhalation 4200 mg/m³ / 4 h (rat)



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Skin corrosion / irritation: Corrosive effect on skin and mucous membrane.

Serious eye damage / eye irritation: Strong corrosive effect.

Respiratory or skin sensitization, germ cell mutagen city, carcinogenicity; No data available.

For other hazards, refer section Hazard Identification.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

ROUTE OF EXPOSURE

Multiple Routes: Harmful if swallowed, inhaled, or absorbed through skin. Causes burns.

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Substance Disposal

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

RID/ADR

UN No. : 2920
Class : 8
Packing Group : II
Subrisk : 3

Proper Shipping Name : Corrosive Liquid, Flammable,

n.o.s. Methoxy Acetyl Chloride

IMDG

UN No : 2920 Class : 8 Packing Group : II Subrisk : 3

Proper Shipping Name : Corrosive Liquid, Flammable, n.o.s. Methoxy Acetyl Chloride

IATA

UN No. : 2920
Class : 8
Packing Group : II
Subrisk : 3



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Proper Shipping Name : Corrosive Liquid, Flammable,

n.o.s. Methoxy Acetyl Chloride

Inhalation Packing Group I : No

Technical Name : Required, Methoxy Acetyl Chloride

Marine Pollutant: No

Section 15 - Regulatory Information

This data sheet complies with the requirements of regulation (EC) No 1907 / 2006

Section 16 - Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Shiva Pharmachem Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incident, consequential or exemplary damages, howsoever arising, even if Shiva Pharmachem Ltd has been advised of the possibility of such damages.