



## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: Identification

#### 1.1 Product identifiers

**Product Name :** Methoxyacetyl chloride  
**Cat No.:** AC125700000; AC125700010; AC125700100; AC125700500;  
AC125702500  
**CAS No. :** 38870-89-2

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

**Recommended uses :** Laboratory chemicals.  
**Uses advised against:** Food, drug, pesticide or biocidal product use.

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

**Company :** Krishna Solvechem Limited.  
B/503, Sahayog, S. V. Road,  
Kandivali (West), Mumbai – 400067. India.  
**Telephone :** +91-22-6123 0222  
**Email :** exports@kscl.co.in

#### 1.4 Emergency telephone number

**Emergency Phone :** +91-8657457330

### SECTION 2: Hazards identification

#### 2.1 Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	(Category 3)
Skin Corrosion/Irritation	(Category 1 B)
Serious Eye Damage/Eye Irritation	(Category 1)
Specific target organ toxicity (single exposure)	(Category 3),
Target Organs - Respiratory system.	

#### 2.2 Label elements

**Pictogram :**



Corrosive to metals

**Signal word**

Danger

**Hazard statement (s)**

Flammable liquid and vapor  
Causes severe skin burns and eye damage  
May cause respiratory irritation



**Precautionary statement (s)**

**Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Use only outdoors or in a well-ventilated area  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use explosion-proof electrical/ventilating/lighting/equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Keep cool

**RESPONSE:**

Immediately call a POISON CENTER or doctor/physician

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**IF INHALED:**

Remove victim to fresh air and keep at rest in a position comfortable for breathing

**IF ON SKIN (or hair):**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

**Ingestion**

IF SWALLOWED: Rinse mouth.  
DO NOT induce vomiting

**Storage:**

Store locked up  
Store in a well-ventilated place. Keep container tightly closed

**Fire**

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Disposal:**

Dispose of contents/container to an approved waste disposal plant



**Hazards not otherwise classified (HNOC)**

None identified

### SECTION 3: Composition / information on ingredients

Component	CAS-No	Weight %
Methoxyacetyl chloride	38870-89-2	95

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**If inhalation :** Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.

**In case of skin contact :** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.

**In case of eye contact :** Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Ingestion :** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Call a physician immediately. If possible drink milk afterwards.

**4.2 Most important symptoms and effects :** Difficulty in breathing. Causes burns by all exposure routes. . Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

**4.3 Notes to Physician :** Treat symptomatically

### SECTION 5: Firefighting effects

#### 5.1 Extinguishing media

**Suitable extinguishing media :** Carbon dioxide (CO<sub>2</sub>). Dry chemical. Chemical foam. Water mist may be used to cool closed containers.

No information available

**Unsuitable Extinguishing Media: :**



<b>5.2 Flash Point :</b>	28 °C / 82.4 °F
<b>Method :</b>	No information available
<b>Autoignition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Upper</b>	No data available
<b>Lower</b>	No data available
<b>Sensitivity to Mechanical Impact</b>	No information available
<b>Sensitivity to Static Discharge</b>	No information available
<b>Specific Hazards Arising from the Chemical :</b>	Flammable. Vapors may travel to source of ignition and flash back. Will form explosive mixtures with air. Containers may explode when heated. Vapors may form explosive mixtures with air.
<b>Hazardous Combustion Products :</b>	Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Phosgene. Hydrogen chloride gas.

<b>5.4 Protective Equipment and Precautions for Firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
<b><u>NFPA:</u></b>	<b>Health</b>	<b>Flammability</b>	<b>Instability</b>	<b>Physical hazards</b>
	3	2	0	N/A

## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Remove all sources of ignition. Take precautionary measures against static discharges.
- 6.2 Environmental precautions**  
See Section 12 for additional Ecological Information.
- 6.3 Methods and materials for containment and cleaning up**  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling**  
Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Handle product only in closed system or provide appropriate exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Contents may develop pressure upon prolonged storage. Keep away from open flames, hot surfaces and sources of ignition. Take



precautionary measures against static discharges.

## 7.2 Conditions for safe storage

Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed. Keep away from heat, sparks and flame. Refrigerator/flammables. Keep under nitrogen. Keep container tightly closed in a dry and well-ventilated place.

## SECTION 8: Exposure controls/personal protection

### 8.1 Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment.

### 8.2 Exposure controls

#### Personal protective equipment -

##### Eye / Face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

##### Skin protection and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

##### Respiratory protection

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

##### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a) Appearance	Light yellow, Form: Liquid
b) Odour	No information available
c) Odour Threshold	No data available
d) pH	No data available



e) Melting point / freezing point	No data available
f) Initial boiling point and boiling range	112 - 113 °C / 233.6 - 235.4 °F
g) Flash point	28 °C / 82.4 °F
h) Evaporation rate	No information available
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No information available.
l) Vapour density	No information available.
m) Specific Gravity	1.187
n) Solubility	No information available.
o) Partition coefficient: n octanol/water	No data available
p) Auto-ignition temperature	No information available.
q) Decomposition temperature	No information available.
r) Viscosity	No information available.
s) Molecular formula	C3 H5 Cl O2
t) Molecular Weight	108.52

### SECTION 10: Stability and Reactivity

10.1 Reactive Hazard :	None known, based on information available
10.2 Chemical stability :	Stable under normal conditions. Moisture sensitive.
10.3 Possibility of hazardous reactions :	May react with metals and lead to the formation of flammable hydrogen gas.
10.4 Conditions to avoid :	Keep away from open flames, hot surfaces and sources of ignition. Protect from water. Excess heat. Exposure to light. Incompatible products. Exposure to moist air or water.
10.5 Incompatible materials:	Strong bases, Alcohols
10.6 Hazardous decomposition products :	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Phosgene, Hydrogen chloride gas
10.7 Hazardous Polymerization	No information available.

### SECTION 11: Toxicological information

11.1 Information on toxicological effects	
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<b><u>Acute toxicity:</u></b>	
<b>Product Information</b>	No acute toxicity information is available for this product
<b>Component Information</b>	
<b>Toxicologically Synergistic Products</b>	No information available

<b><u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u></b>															
<b>Irritation :</b>	No information available														
<b>Sensitization:</b>	No information available														
<b>Carcinogenicity :</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen.														
<table border="1"> <thead> <tr> <th>Component</th> <th>CAS-No</th> <th>IARC</th> <th>NTP</th> <th>ACGIH</th> <th>OSHA</th> <th>Mexico</th> </tr> </thead> <tbody> <tr> <td>Methoxyacetyl chlori</td> <td>38870-89-</td> <td>Not listed</td> <td>Not listed</td> <td>Not listed</td> <td>Not listed</td> <td>Not listed</td> </tr> </tbody> </table>		Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	Methoxyacetyl chlori	38870-89-	Not listed	Not listed	Not listed	Not listed	Not listed
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico									
Methoxyacetyl chlori	38870-89-	Not listed	Not listed	Not listed	Not listed	Not listed									

<b>Mutagenic Effects:</b>	No information available.
<b>Reproductive Effects:</b>	No information available.
<b>Developmental Effects :</b>	No information available.
<b>Teratogenicity:</b>	No information available.
<b>STOT - single exposure :</b>	Respiratory system
<b>STOT - repeated exposure:</b>	None known
<b>Aspiration hazard :</b>	No information available
<b>Symptoms / effects,both acute and delayed:</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
<b>Endocrine Disruptor Information :</b>	No information available
<b>Other Adverse Effects :</b>	The toxicological properties have not been fully investigated.

## SECTION 12: Ecological information

<b>12.1 Ecotoxicity</b>	Do not empty into drains
<b>12.2 Persistence and degradability:</b>	Soluble in water Persistence is unlikely based on information Available.



<b>Bioaccumulation/ Accumulation</b>	No information available
<b>12.3 Mobility:</b>	Will likely be mobile in the environment due to its water solubility.

### SECTION 13: Disposal considerations

**13.1 Waste treatment methods:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### SECTION 14: Transport information

<b>14.1 UN number :</b>	ADR/RID: 2920 IMDG: 2920 IATA: 2920		
<b>14.2 UN proper shipping name</b>			
<b>ADR/RID :</b>	CORROSIVE LIQUID, FLAMMABLE, N.O.S.*		
<b>IMDG :</b>	CORROSIVE LIQUID, FLAMMABLE, N.O.S.*		
<b>IATA :</b>	CORROSIVE LIQUID, FLAMMABLE, N.O.S.*		
<b>14.3 Transport hazard class(es)</b>	ADR/RID: 8	IMDG: 8	IATA: 8
<b>Subsidiary Hazard Class(es)</b>	ADR/RID: 3	IMDG: 3	IATA: 3
<b>14.4 Packaging group:</b>	ADR/RID: II	IMDG: II	IATA: II

### SECTION 15: Regulatory information

**15.1 United states of America Inventory:**

Component	CAS-No	TSCA	TSCA Inventory notification Active/Inactive	TSCA - EPA Regulatory Flags
Methoxyacetyl chloride	38870-89-2	-	-	-

**Legend:**

**TSCA -** Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

**TSCA 12(b)** -Notices of Export:- Not applicable

**International Inventories**

Canada (DSL/NDL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).





Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Methoxyacetyl chloride	38870-89-2	-	-	254-169-2	X	X	-	-	KE-23199

**U.S. Federal Regulations**

**SARA 313** Not applicable

**SARA 311/312 Hazard Categories** See section 2 for more information

**CWA (Clean Water Act)** Not applicable

**Clean Air Act** Not applicable

**OSHA - Occupational Safety and Health Administration** Not applicable

**CERCLA** Not applicable

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations** Not applicable

**15.2 U.S. State Right-to-Know Regulations:**

**U.S. Department of Transportation**

Reportable Quantity (RQ): N  
 DOT Marine Pollutant N  
 DOT Severe Marine Pollutant N

**U.S. Department of Homeland Security** - This product does not contains the following DHS chemicals:

**Other International Regulations**

**Mexico – Grade** No information available

**SECTION 16: Other information**

**16.1 Prepared By:** Regulatory Affairs  
 Krishna Solvechem Ltd  
**Email:** [exports@kscl.co.in](mailto:exports@kscl.co.in)  
**Revision Date:** 26-Jan-2018  
**Print Date:** 26-Jan-2018  
**Revision Summary:** This document has been updated to comply with the US



## KSCL

**OSHA**

**under 29**

**System of**

**HazCom 2012 Standard replacing the current legislation**

**CFR 1910.1200 to align with the Globally Harmonized**

**Classification and Labeling of Chemicals (GHS).**

### **16.2 Disclaimer:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.