



## KSCL

### MATERIAL SAFETY DATA SHEET (MSDS)

#### SECTION 1: Identification

##### 1.1 Product identifiers

**Product Name :** Myristoyl chloride  
**Cat No.:** AC180630000; AC180630050; AC180631000; AC180635000  
**CAS No. :** 112-64-1

##### 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 Ltd.  
B/503, Shayog, S. V. Road,  
Kandivali (West), Mumbai – 400067. India.  
**Telephone :** +91-22-6123 0222  
**Email :** [exports@kscl.co.in](mailto: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)

Acute oral toxicity	(Category 4)
Skin Corrosion/Irritation	(Category 1 B)
Serious Eye Damage/Eye Irritation	(Category 1)
Acute inhalation toxicity - vapors	(Category 4)

##### 2.2 Label elements

**Pictogram :**



**Signal word**

Danger

**Hazard statement (s)**

Causes severe skin burns and eye damage



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### Precautionary statement (s)

#### Prevention

Harmful if swallowed or if inhaled.

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Do not eat, drink or smoke when using this product

#### Response :

Immediately call a POISON CENTER or doctor/physician

#### Inhalation :

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

#### Eyes:

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

#### Ingestion

Rinse mouth .  
Do NOT induce vomiting

#### Storage:

Store locked up



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	<b>Disposal:</b> Dispose of contents/container to an approved waste disposal plant
<b>Hazards not otherwise classified (HNOC)</b>	Contact with water liberates toxic gas

### SECTION 3: Composition / information on ingredients

#### 3.1

Component	CAS-No	Weight %
Tetradecanoyl chloride	112-64-1	>95

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>If inhalation :</b>	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.
<b>In case of skin contact :</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.
<b>In case of eye contact :</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>Ingestion :</b>	Do NOT induce vomiting. Call a physician immediately.
<b>4.2 Most important symptoms and effects :</b>	Causes burns by all exposure routes. 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>4.3 Notes to Physician :</b>	Treat symptomatically

### SECTION 5: Firefighting effects

#### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Carbon dioxide. Dry chemical. Chemical foam.
<b>Unsuitable Extinguishing Media: :</b>	No information available

<b>5.2 Flash Point :</b>	100 °C / 212 °F
<b>Method :</b>	No information available



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**Autoignition Temperature:** No information available

**Explosion Limits:**

**Upper** No data available

**Lower** No data available

**Sensitivity to Mechanical Impact** No information available

**Sensitivity to Static Discharge** No information available

**Specific Hazards Arising from the Chemical :** Contact with water liberates toxic gas. Water reactive. Produce flammable gases on contact with water.

**Hazardous Combustion Products :** Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Phosgene. Hydrogen chloride gas.

**5.4 Protective Equipment and Precautions for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA:**

Health	Flammability	Instability	Physical hazards
3	0	0	W

### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment as required.

**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. Wear self-contained breathing apparatus and protective suit. Do not expose spill to water. Do not let this chemical enter the environment.

### SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

Do not breathe dust. Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance. Handle product only in closed system or provide appropriate exhaust ventilation. Do not allow contact with water because of violent reaction. Keep under nitrogen.



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### 7.2 Conditions for safe storage

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from moisture. Corrosives area. Incompatible Materials. Water. Strong bases. Alcohols. Amines.

## 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 that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

### 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

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

##### 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	Form: Liquid, Light yellow
b) Odour	Odorless
c) Odour Threshold	No information available
d) pH	No information available
e) Melting point / freezing point	-1 °C / 30.2 °F
f) Initial boiling point and	172 - 176 °C / 341.6 - 348.8 °F @ 5 MBAR



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<b>boiling range</b>	
<b>g) Flash point</b>	100 °C / 212 °F
<b>h) Evaporation rate</b>	No information available
<b>i) Flammability (solid, gas)</b>	No information available
<b>j) Upper/lower flammability or explosive limits</b>	No data available No data available
<b>k) Vapour pressure</b>	No information available
<b>l) Vapour density</b>	No information available
<b>m) Specific Gravity</b>	0.908
<b>n) Solubility</b>	No information available
<b>o) Partition coefficient: n octanol/water</b>	No data available
<b>p) Auto-ignition temperature</b>	No information available
<b>q) Decomposition temperature</b>	No information available
<b>r) Viscosity</b>	No information available
<b>s) Molecular formula</b>	C <sub>14</sub> H <sub>27</sub> Cl O
<b>t) Molecular Weight</b>	246.82

### SECTION 10: Stability and Reactivity

<b>10.1 Reactive Hazard :</b>	Yes
<b>10.2 Chemical stability :</b>	Stable under normal conditions. Moisture sensitive
<b>10.3 Possibility of hazardous reactions :</b>	May react with metals and lead to the formation of flammable hydrogen gas
<b>10.4 Conditions to avoid :</b>	Incompatible products. Exposure to moist air or water.
<b>10.5 Incompatible materials:</b>	Water, Strong bases, Alcohols, Amines
<b>10.6 Hazardous decomposition products :</b>	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Hydrogen chloride gas, Phosgene
<b>10.7 Hazardous Polymerization</b>	No information available



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### SECTION 11: Toxicological information

**11.1**

**Information on toxicological effects**

**Acute toxicity:**

**Product Information:** No acute toxicity information is available for this product

**Component Information**

**Toxicologically Synergistic Products** No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Irritation :** No information available

**Sensitization:** No information available

**Carcinogenicity :** The table below indicates whether each agency has Any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Tetradecanoyl chloride	112-64-1	Not listed	Not listed	Not listed	Not listed	Not listed

**Mutagenic Effects:** Did not show mutagenic effects in animal experiments

**Reproductive Effects:** No information available.

**Developmental Effects :** No information available.

**Teratogenicity:** No information available.

**STOT - single exposure :** None known

**STOT - repeated exposure:** None known

**Aspiration hazard :** No information available.

**Symptoms / effects, both acute and delayed:** 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

**Endocrine Disruptor Information :** No information available

**Other Adverse Effects :** The toxicological properties have not been fully investigated.



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### SECTION 12: Ecological information

<b>12.1 Ecotoxicity:</b>	Do not empty into drains.
<b>12.2 Persistence and degradability:</b>	No information available
<b>Bioaccumulation/ Accumulation</b>	No information available
<b>12.3 Mobility:</b>	No information available

### 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>				
DOT: UN3265	TDG: UN3265			
IATA: UN2922	IMDG: UN2922			
<b>14.2 UN proper shipping name</b>				
<b>IMDG :</b>	Corrosive liquid, toxic, n.o.s.			
<b>IATA :</b>	Corrosive liquid, toxic, n.o.s.			
<b>14.3 Transport hazard class(es)</b>	DOT: 8	TDG: 8	IMDG: 8	IATA: 8
<b>14.4 Packaging group:</b>	DOT: II	TDG: II	IMDG: II	IATA: II

### SECTION 15: Regulatory information

**15.1 United states of America Inventory:**

Component	CAS-No	TSC A	TSCA Inventory notification Active/Inactive	TSCA - EPA Regulatory Flags
Tetradecanoyl chloride	112-64-1	X	ACTIVE	-

**Legend:**





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**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/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Tetradecanoyl chloride	112-64-1	-	X	203-994-6	X	X	X	X	-	-

KECL – NIER number or KE number

**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.

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

Not applicable

**U.S. Department of Transportation**

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N



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**U.S. Department of Homeland Security** - This product does not contain the any DHS Chemicals.

### Other International Regulations

**Mexico – Grade** No information available

**Authorization/Restrictions according to EU REACH**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Tetradecanoyl chloride	112-64-1	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Tetradecanoyl chloride	112-64-1	Not applicable	Not applicable	Not applicable	Not applicable

## SECTION 16: Other information

**16.1 Prepared By:** Regulatory affairs  
Krishna Solvechem Ltd

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**Revision Summary:** This document has been updated to comply with the US OSHA Haz Com 2012 Standard replacing the current legislation under 29 C FR 1910.1200 to align with the Globally Harmonized System of 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 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.