

## • SAFETY DATA SHEET

Version 6.9  
Revision Date 11/06/2025  
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### SECTION 1. IDENTIFICATION

#### 1.1 Product identifiers

Product name : Myristoyl chloride  
Product Number : 185205  
Brand : Aldrich  
CAS-No. : 112-64-1

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

Identified uses : Laboratory chemicals, Synthesis of substances  
Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

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

Company : Sigma-Aldrich Inc.  
3050 SPRUCE ST  
ST. LOUIS MO 63103  
UNITED STATES  
Telephone : +1 314 771-5765  
Fax : +1 800 325-5052

#### 1.4 Emergency telephone number

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

##### Hazards for the product as supplied

Corrosive to metals : Category 1

Skin corrosion : Category 1B

Serious eye damage : Category 1

### **Other hazards**

None known.

### **GHS label elements**

Hazard pictograms : 

Signal word : Danger

Hazard statements : H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:**

P234 Keep only in original container.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### **Response:**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

#### **Storage:**

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

#### **Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

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## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance  
CAS-No. : 112-64-1

### Components

| Chemical name      | CAS No./Unique ID | Concentration (% w/w) | Trade secret |
|--------------------|-------------------|-----------------------|--------------|
| Myristoyl chloride | 112-64-1*         | >= 90 - <= 100        | -            |

\* Indicates that the identifier is a CAS No.  
Actual concentration is withheld as a trade secret

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## SECTION 4. FIRST AID MEASURES

General advice : First aiders need to protect themselves. Show this safety data sheet to the doctor in attendance.

If inhaled : After inhalation: fresh air. Call in physician.

In case of skin contact : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact : After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed : After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

Most important symptoms and effects, both acute and delayed : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Protection of first-aiders : For personal protection see section 8.

Notes to physician : No data available

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## SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam  
Carbon dioxide (CO2)  
Dry powder

|  |   |
|--|---|
| Unsuitable extinguishing media                 | : For this substance/mixture no limitations of extinguishing agents are given.  |
| Specific hazards during fire fighting          | <p>: Combustible.</p> <p>Vapours are heavier than air and may spread along floors.</p> <p>Forms explosive mixtures with air on intense heating.</p>                             |
|  | Development of hazardous combustion gases or vapours possible in the event of fire.   |
| Hazardous combustion products                  | <p>: Carbon oxides</p> <p>Hydrogen chloride gas</p>   |
| Specific extinguishing methods                 | : No data available   |
| Further information                            | <p>: Suppress (knock down) gases/vapours/mists with a water spray jet.</p> <p>Prevent fire extinguishing water from contaminating surface water or the ground water system.</p> |
| Special protective equipment for fire-fighters | : Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.                 |

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

|   |  |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : Advice for non-emergency personnel:<br>Do not breathe vapours, aerosols.<br>Avoid substance contact.<br>Ensure adequate ventilation.<br>Evacuate the danger area, observe emergency procedures, consult an expert.<br>Advice for emergency responders:<br>For personal protection see section 8. |
| Environmental   | : Do not let product enter drains.   |

precautions

|   |  |
|---|--|
| Methods and materials for containment and cleaning up | : Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area. |
|---|--|

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## SECTION 7. HANDLING AND STORAGE

For precautions see section 2.2.

|   |   |
|---|---|
| Conditions for safe storage               | : No metal containers.                                  |
| Further information on storage conditions | : Tightly closed.                                       |
| Storage class                             | : 8A, Combustible, corrosive hazardous materials        |
| Recommended storage temperature           | : Recommended storage temperature see product label.    |
| Further information on storage stability  | : Air and moisture sensitive.<br>Store under inert gas. |

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** : No data available

### Personal protective equipment

Respiratory protection : required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: : Filter type ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to

the instructions of the producer. These measures have to be properly documented.

#### Hand protection

|                          |   |
|--------------------------|---|
| Remarks                  | : required  |
| Eye protection           | : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).<br>Tightly fitting safety goggles |
| Skin and body protection | : protective clothing   |
| Hygiene measures         | : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.                                   |

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#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                             |   |
|-----------------------------|---|
| Appearance                  | : liquid                                    |
| Color                       | : colourless                                |
| Odor                        | : No data available                         |
| Odor Threshold              | : No data available                         |
| pH                          | : No data available                         |
| Melting point/ range        | : 30 °F / -1 °C<br>Method: lit.             |
| Boiling point/boiling range | : 482 °F / 250 °C (133 hPa)<br>Method: lit. |
| Flash point                 | : 235 °F / 113 °C<br>Method: closed cup     |
| Evaporation rate            | : No data available                         |
| Flammability (solid, gas)   | : No data available                         |
| Flammability (liquids)      | : No data available                         |
| Burning rate                | : No data available                         |
| Upper explosion limit /     | : No data available                         |

|  |   |
|--|---|
| Upper flammability limit                         |   |
| Lower explosion limit / Lower flammability limit | : No data available                                       |
| Vapor pressure                                   | : No data available                                       |
| Relative vapour density                          | : No data available                                       |
| Relative density                                 | : No data available                                       |
| Density  | : 0.908 g/cm <sup>3</sup> (77 °F / 25 °C)<br>Method: lit. |
| Water solubility                                 | : No data available                                       |
| Partition coefficient: n-octanol/water           | : No data available                                       |
| Autoignition temperature                         | : No data available                                       |
| Decomposition temperature                        | : No data available                                       |
| Viscosity, dynamic                               | : No data available                                       |
| Viscosity, kinematic                             | : No data available                                       |
| Flow time  | : No data available                                       |
| Explosive properties                             | : No data available                                       |
| Oxidizing properties                             | : none  |
| Molecular weight                                 | : 246.82 g/mol  |
| Metal corrosion rate                             | : May be corrosive to metals.                             |
| Particle characteristics                         |   |
| Particle size                                    | : No data available                                       |

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## SECTION 10. STABILITY AND REACTIVITY

|                    |   |
|--------------------|---|
| Reactivity         | : Forms explosive mixtures with air on intense heating.<br><br>A range from approx. 15 Kelvin below the flash point is to be rated as critical. |
| Chemical stability | : The product is chemically stable under standard   |

ambient conditions (room temperature) .

Possibility of hazardous reactions : Violent reactions possible with:  
Water  
Alcohols  
Oxidizing agents  
Strong bases

Conditions to avoid : Avoid moisture.  
Strong heating.

Incompatible materials : No data available

Hazardous decomposition products : In the event of fire: see section 5

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

Oral: No data available  
Inhalation: No data available  
Dermal: No data available

#### **Skin corrosion/irritation**

Remarks: Causes skin burns.  
(ECHA)

#### **Serious eye damage/eye irritation**

Remarks: Causes serious eye damage.

#### **Respiratory or skin sensitization**

No data available

#### **Germ cell mutagenicity**

No data available

#### **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### **Reproductive toxicity**

No data available

#### **Specific target organ toxicity - single exposure**

No data available

#### **Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Additional Information**

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

|   |   |
|---|---|
| UN/ID No.                                   | : UN 3265   |
| Proper shipping name                        | : Corrosive liquid, acidic, organic, n.o.s.<br>(Myristoyl chloride) |
| Class                                       | : 8   |
| Packing group                               | : II  |
| Labels                                      | : Class 8 - Corrosive substances                                    |
| Packing instruction (cargo<br>aircraft)     | : 855   |
| Packing instruction<br>(passenger aircraft) | : 851   |

Aldrich - 185205

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The life science business of Merck KGaA, Darmstadt, Germany  
operates as MilliporeSigma in the US and Canada

**Millipore  
Sigma**

**IMDG-Code**

|                      |   |   |
|----------------------|---|---|
| UN number            | : | UN 3265   |
| Proper shipping name | : | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.<br>(Myristoyl chloride) |
| Class                | : | 8   |
| Packing group        | : | II  |
| Labels               | : | 8   |
| EmS Code             | : | F-A, S-B  |
| Marine pollutant     | : | no  |

**Transport in bulk according to IMO instruments**

Not applicable for product as supplied.

**National Regulations****49 CFR Road**

|                      |   |   |
|----------------------|---|---|
| UN/ID/NA number      | : | UN 3265   |
| Proper shipping name | : | Corrosive liquid, acidic, organic, n.o.s.<br>(Myristoyl chloride) |
| Class                | : | 8   |
| Packing group        | : | II  |
| Labels               | : | Class 8 - Corrosive substances                                    |
| ERG Code             | : | 153   |
| Marine pollutant     | : | no  |

Poison Inhalation Hazard : No

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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**SECTION 15. REGULATORY INFORMATION****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 313**

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## **US State Regulations**

### **Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

### **Maine Chemicals of High Concern**

Product does not contain any listed chemicals

### **Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

### **Washington Chemicals of High Concern**

Product does not contain any listed chemicals

### **The components of this product are reported in the following inventories:**

TSCA : All substances listed as active on the TSCA inventory

### **TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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## **SECTION 16. OTHER INFORMATION**

### **Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent,

Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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