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SAFETY DATA SHEET

Print Date: 2023-07-23

### SECTION 1:Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : 1-Chloro-2-methylpropane

Product Number : C106087
Brand : aladdin
CAS-No. : 513-36-0

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

Identified uses : 仅供科研用途,不作为药物、家庭备用药或其它用途。

1.3 Details of the supplier of the safety data sheet

Company : Shanghai Aladdin Biochemical Tech Co.,Ltd

Address : 36 Xinjinqiao Road, Shanghai

Telephone : 400-620-6333 Fax : no data available

1.4 Emergency telephone number

Emergency Phone : 0532-83889090

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

# 2.2 GHS Label elements, including precautionary statements

Pictogram
Signal word
Danger

Hazard statement(s)

H225 Highly Flammable liquid and vapor

Precautionary statement(s)

P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. -

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting/.../] equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

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

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P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with

water [or shower].

P370+P378 In case of fire: Use ... to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

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

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Synonyms : Isobutyl chloride; Chloro isobutane; iso-Chloro-butane

Formula : C4H9Cl
Molecular weight : 92.57
CAS No. : 513-36-0
EC-NO. : no data available

Component Classification Concentration

1-Chloro-2-methylpropane

no data available 98%

### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

# In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

# 4.2 Most important symptoms and effects, both acute and delayed

no data available

# 4.3 Indication of any immediate medical attention and special treatment needed

no data available

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

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### Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water

### Unsuitable extinguishing media

no data available

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

Hazardous decomposition products formed under fire conditions.- Carbon oxides, Hydrogen chloride gas

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

no data available

### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas.Ensure adequate ventilation.Remove all sources of ignition.Evacuate personnel <br/>
safe areas.Beware of vapours accumulating to form explosive concentrations.Vapours can accumulate in low <br/>
areas. <br/>
<br/>
| Stripping | Stripp

# 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.Do not let product enter drains.

# 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in <br/>
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container for disposal according to local regulations (see section 13).<br/>
<br/>
br/>

### 6.4 Reference to other sections

no data available

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Avoid inhalation of vapour or mist.<br/>
Vise explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build <br/>
vir/>up of electrostatic charge.<br/>
Vir/>Aldrich - 178004 Page 3 of 6 <br/>
vir/>

# 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must <br/>be carefully resealed and kept upright to prevent leakage. <br/>

### 7.3 Specific end use(s)

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### no data available

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 **Control parameters**

#### 8.2 **Exposure controls**

# Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of <br/>br/>workday.<br/>

### Personal protective equipment

# Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate <br/><br/>dor/>government standards such as NIOSH (US) or EN 166(EU).<br/>

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching <br/><br/>splove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in <br/>str/>accordance with applicable laws and good laboratory practices. Wash and dry hands. <br/>

### **Body Protection**

impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be <br/>selected according to the concentration and amount of the dangerous substance at the specific workplace.<br/>

# Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose <br/>
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<br/> <br/><br/>tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).<br/>

# Control of environmental exposure

no data available

# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

a) Appearance no data available b) Odour no data available c) Odour Threshold no data available d) pH no data available e) Melting point/freezing point -131°C

f) Initial boiling point and boiling range 68-69°C g) Flash point (开杯) <7℃ h) Evaporation rate no data available i) Flammability (solid, gas) no data available

j) Upper/lower flammability or explosive

limits no data available k) Vapour pressure no data available I) Vapour density no data available m) Relative density no data available n) Water solubility no data available o) Partition coefficient: n-octanol/water no data available

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p) Auto-ignition temperatureq) Decomposition temperature

r) Viscosity

s) Explosive properties N t) Oxidizing properties N

no data available no data available no data available

no data available no data available

# 9.2 Other safety information

no data available

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Stable under recommended storage conditions.

# 10.2 Chemical stability

<br/>br/>Vapours may form explosive mixture with air.

# 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Strong oxidizing agents

# 10.5 Incompatible materials

Hazardous decomposition products formed under fire conditions.- Carbon oxides, Hydrogen chloride gas <br/> Chler decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available <br/> - la decomposition products - no data available

# 10.6 Hazardous decomposition products

Oral LD50 <br/>br/>no data available <br/>lnhalation LC50 <br/>no data available <br/>br/>Dermal LD50 <br/>hr/>no data available <br/>other information on acute toxicity <br/>hr/>no data available <br/>

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

# Acute toxicity

no data available

# Skin corrosion/irritation

no data available <br/>

# Serious eye damage/eye irritation

no data available <br/>

# Respiratory or skin sensitisation

no data available

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# Germ cell mutagenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as <br/>
or confirmed human carcinogen by IARC.<br/>
br/>ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a <br/>
carcinogen or potential carcinogen by ACGIH.<br/>
br/>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a <br/>
br/>known or anticipated carcinogen by NTP.<br/>
br/>Carcinogen or potential carcinogen by OSHA.<br/>
No component of this product present at levels greater than or equal to 0.1% is identified as a <br/>
br/>Carcinogen or potential carcinogen by OSHA.<br/>
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carcinogen by OSHA.

# Carcinogenicity

no data available <br/>

# Reproductive toxicity

no data available <br/>

# Specific target organ toxicity - single exposure

no data available

# Specific target organ toxicity - repeated exposure

no data available

### **Aspiration hazard**

no data available <br/>

### **Additional Information**

no data available

# **SECTION 12: Ecological information**

# 12.1 Toxicity

no data available

# 12.2 Persistence and degradability

no data available <br/>

# 12.3 Bioaccumulative potential

no data available <br/>

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

no data available <br/><br/>

### 12.6 Other adverse effects

no data available

# SECTION 13:

# 13.1 Disposal considerations

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### **Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material <br/>is highly flammable.Offer surplus and non-recyclable solutions to a licensed disposal company.Contact a licensed <br/>
<br/>br/>professional waste disposal service to dispose of this material.

# Contaminated packaging

no data available

# **SECTION 14: Transport information**

DOT (US)

UN number: 1127 Packing group: II Class: 3

Proper shipping name: Reportable Quantity(RQ): no data available Poison Inhalation Hazard: 否

Environmental Hazards: 否

**IMDG** 

UN number: 1127 Packing group: II EMS-No: 否

Proper shipping name:

IATA

UN number: 1127 Packing group: II Class: 3

Proper shipping name:

# **SECTION 15: Regulatory information**

no data available

### **SECTION 16: Other information**

### **Further information**

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