

# SAFETY DATA SHEET

Version 6.3 Revision Date 09/10/2021 Print Date 05/28/2022

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

### 1.1 Product identifiers

Product name : Propene-2-13C

Product Number : 487015 Brand : Aldrich CAS-No. : 37020-81-8

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

Identified uses : Laboratory chemicals, Synthesis of substances

# 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

Emergency Phone #: 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

Flammable gases (Category 1), H220 Gases under pressure (Liquefied gas), H280 Simple Asphyxiant,

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H220 Extremely flammable gas.



H280 Contains gas under pressure; may explode if heated.

May displace oxygen and cause rapid suffocation.

Precautionary statement(s)

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No

smokina.

P377 Leaking gas fire: Do not extinguish, unless leak can be stopped

safely.

P381 Eliminate all ignition sources if safe to do so.

P410 + P403 Protect from sunlight. Store in a well-ventilated place.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

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

#### 3.1 Substances

Synonyms : Propylene-2-13C

Formula : 13<sub>CC2</sub>H<sub>6</sub>
Molecular weight : 43.07 g/mol
CAS-No. : 37020-81-8

Component	Classification	Concentration
Propene-2- <sp>13C</sp>		
	Flam. Gas 1; Press. Gas	<= 100 %
	Liquefied gas; SA; H220,	
	H280,	

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

#### 4.1 Description of first-aid measures

# **General advice**

Consult a physician. Show this material 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 physician.



# 4.2 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

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

No data available

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides

# 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information

Use water spray to cool unopened containers.

### **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 to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

#### 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

Clean up promptly by sweeping or vacuum.

### 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

# Advice on safe handling

Avoid inhalation of vapor or mist.

# Advice on protection against fire and explosion

Use explosion-proof equipment. **Advice on protection against fire and explosion** Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

# Hygiene measures

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

For precautions see section 2.2.

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# 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. hygroscopic

### Storage class

Storage class (TRGS 510): 2A: Gases

# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis		
Propene-2-13C	37020-81- 8	TWA	500 ppm	USA. ACGIH Threshold Limit Values (TLV)		
	Remarks	Not classifiable as a human carcinogen				

# 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 workday.

# Personal protective equipment

# **Eye/face protection**

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

# Skin protection

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

### **Body Protection**

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

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### **Control of environmental exposure**

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



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

# 9.1 Information on basic physical and chemical properties

a) Appearance Form: Liquefied gasb) Odor No data available

b) Odorc) Odor Thresholddata availableNo data available

d) pH No data available

e) Melting point/range: -185 °C (-301 °F) - lit. point/freezing point

f) Initial boiling point -47.7 °C -53.9 °F - lit. and boiling range

g) Flash point -108 °C (-162 °F) - closed cup

h) Evaporation rate No data availablei) Flammability (solid, No data available gas)

k) Vapor pressure 15,604 hPa

I) Vapor density 1.45 - (Air = 1.0)
 m) Density No data available
 Relative density No data available
 n) Water solubility No data available
 o) Partition coefficient: No data available

n-octanol/water

p) Autoignition No data available temperature

q) Decomposition No data available temperature

r) Viscosity No data availables) Explosive properties No data availablet) Oxidizing properties No data available

# 9.2 Other safety information

Relative vapor 1.45 - (Air = 1.0) density

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No data available

#### 10.2 Chemical stability

Stable under recommended storage conditions.

# 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

Heat, flames and sparks.

# 10.5 Incompatible materials

Strong oxidizing agents, Strong acids

#### 10.6 Hazardous decomposition products

No data available

In the event of fire: see section 5

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# **Acute toxicity**

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

# Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

# Respiratory or skin sensitization

No data available

# Germ cell mutagenicity

No data available

### Carcinogenicity

IARC: No ingredient 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 ingredient 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

Dizziness, Headache, Central nervous system depression

# **SECTION 12: Ecological information**

# 12.1 Toxicity

No data available

# 12.2 Persistence and degradability

No data available

# 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

No data available

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

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

### Contaminated packaging

Dispose of as unused product.

# **SECTION 14: Transport information**

# DOT (US)

UN number: 1077 Class: 2.1 Proper shipping name: Propylene Reportable Quantity (RQ): Poison Inhalation Hazard: No

# **IMDG**

UN number: 1077 Class: 2.1 EMS-No: F-D, S-U Proper shipping name: PROPYLENE

# **IATA**

UN number: 1077 Class: 2.1 Proper shipping name: Propylene

IATA Passenger: Not permitted for transport

### **SECTION 15: Regulatory information**

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#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

# **SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Propene-2-13C	CAS-No. 37020-81-8	Revision Date 2020-07-14
Massachusetts Right To Know Components Propene-2-13C	CAS-No. 37020-81-8	Revision Date 2020-07-14
Pennsylvania Right To Know Components Propene-2-13C	CAS-No. 37020-81-8	Revision Date 2020-07-14
New Jersey Right To Know Components	CAS-No	Revision Date

Propene-2-13C CAS-No. Revision Date 37020-81-8 2020-07-14

# California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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

#### **Further information**

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. 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 and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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