# SIGMA-ALDRICH

sigma-aldrich.com

# **Material Safety Data Sheet**

Version 3.2 Revision Date 07/25/2012 Print Date 01/30/2014

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Methyl 3,3-dimethoxypropionate

Product Number 288322 Brand Aldrich

Supplier : Sigma-Aldrich

3050 Spruce Street SAINT LOUIS MO 63103

USA

Telephone +1 800-325-5832

+1 800-325-5052 Fax Emergency Phone # (For (314) 776-6555

both supplier and

manufacturer)

Preparation Information Sigma-Aldrich Corporation

Product Safety - Americas Region

1-800-521-8956

### 2. HAZARDS IDENTIFICATION

# **Emergency Overview**

### **OSHA Hazards**

Combustible Liquid

### **GHS Classification**

Flammable liquids (Category 4)

### GHS Label elements, including precautionary statements

Pictogram none

Signal word Warning

Hazard statement(s)

H227 Combustible liquid

Precautionary none

statement(s)

**HMIS Classification** 

Health hazard: 0 Flammability: 2 Physical hazards: 0

NFPA Rating

Health hazard: 0 Fire: 2 Reactivity Hazard: 0

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation. Skin

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

Aldrich - 288322

Delivery 0846762728-000020 Purchase Order 2062

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C6H12O4 Molecular Weight : 148.16 g/mol

Component		Concentration
Methyl 3,3-dimethoxypropionate		
CAS-No.	7424-91-1	-
EC-No.	231-055-0	

#### 4. FIRST AID MEASURES

#### General advice

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

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.

### 5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

# Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

### Further information

Use water spray to cool unopened containers.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Avoid breathing vapors, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### **Environmental precautions**

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

# 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 container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

# Conditions for safe storage

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

Aldrich - 288322

Page 1 of 6

Delivery 0846762728-000020 Purchase Order 2062

Page 2 of 6

00001437

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (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).

### Hand 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.

#### Eve protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin and body protection

impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measure:

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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form

clear, liquid colourless

Colour

Safety data

iotj data

pH Melting no data available

point/freezing point

Boiling point Flash point 77 °C (171 °F) at 27 hPa (20 mmHg) - lit.

Ignition temperature

no data available

66 °C (151 °F) - closed cup

Autoignition

no data available

temperature

Lower explosion limit no data available

Upper explosion limit no data available

Vapour pressure

no data available

Density

1.045 g/mL at 25 °C (77 °F)

Water solubility

Partition coefficient:

no data available

n-octanol/water

oota ioi iratoi

Relative vapour density

no data available

Odour

no data available

Odour Threshold

Evaporation rate

no data available

# 10. STABILITY AND REACTIVITY

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

no data available

### Conditions to avoid

Heat, flames and sparks.

#### Materials to avoid

Strong oxidizing agents, Strong acids

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - no data available

#### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

#### Oral LD50

no data available

Inhalation LC50

no data available

#### Dermal LD50

no data available

#### Other information on acute toxicity

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 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.

ACGIH:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

carcinogen or potential carcinogen by Accin.

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.

known or anticipated carcinogen by 1411

OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

cardinogen or potential cardinogen by OSHA.

# Reproductive toxicity

no data available

### Teratogenicity

Page 3 of 6

no data available

Aldrich - 288322 Delivery 0846762728-000020 Purchase Order 2062

# Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

# Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

### Aspiration hazard

no data available

### Potential health effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin

May be harmful if absorbed through skin. May cause skin irritation.

Eyes

May cause eye irritation.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# Synergistic effects

по data available

# Additional Information

RTECS: Not available

# 12. ECOLOGICAL INFORMATION

# **Toxicity**

no data available

# Persistence and degradability

no data available

# Bioaccumulative potential

no data available

# Mobility in soil

no data available

# PBT and vPvB assessment

no data available

# Other adverse effects

no data available

### 13. DISPOSAL CONSIDERATIONS

# Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

# Contaminated packaging

Dispose of as unused product.

# 14. TRANSPORT INFORMATION

# DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

# 15. REGULATORY INFORMATION

Aldrich - 288322

Delivery 0846762728-000020 Purchase Order 2062

Page 5 of 6

# **OSHA Hazards**

Combustible Liquid

### SARA 302 Components

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

# **SARA 313 Components**

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.

# SARA 311/312 Hazards

Fire Hazard

### Massachusetts Right To Know Components

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

# Pennsylvania Right To Know Components

Methyl 3,3-dimethoxypropionate

CAS-No.

Revision Date

7424-91-1

No. Revision Da

# New Jersey Right To Know Components

CAS-No. 7424-91-1

Revision Date

# Methyl 3,3-dimethoxypropionate California Prop. 65 Components

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

### 16. OTHER INFORMATION

#### Further information

Copyright 2012 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. 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.

Aldrich - 288322 Delivery 0846762728-000020 Purchase Order 2062

Page 6 of 6