Company

Emergency Phone #

Fax

## Material Safety Data Sheet

Version 3.0 Revision Date 08/21/2009 Print Date 11/02/2009

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## Product name Methyl acetoacetate

1. PRODUCT AND COMPANY IDENTIFICATION

537365 Product Number Brand : Aldrich

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: +1 9058299500 : +1 9058299292

: Sigma-Aldrich Canada, Ltd.

: 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS Synonyms

 Acetoacetic acid methyl ester 3-Oxobutanoic acid methyl ester MAA

: C5H8O3 Formula

Combustible Liquid

Molecular Weight : 116.12 g/mol CAS-No. EC-No.

Concentration Index-No. Methyl acetoacetate 105-45-3 203-299-8 607-137-00-0

3. HAZARDS IDENTIFICATION WHMIS Classification

Combustible Liquid

Moderate eye irritant

## D2B

В3

HMIS Classification Health Hazard: 2 2 Flammability:

Physical hazards: 0 Potential Health Effects

Inhalation Skin Eyes

May be harmful if inhaled. Causes respiratory tract irritation. May be harmful if absorbed through skin. Causes skin irritation. Ingestion

4. FIRST AID MEASURES

Causes eye irritation. May be harmful if swallowed. Aldrich - 537365

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

If inhaled If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician. In case of skin contact

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

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Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed

In case of eye contact

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES Flammable properties

> Flash point 70 °C (158 °F) - closed cup Ignition temperature 280 °C (536 °F) Suitable extinguishing media

Wear self contained breathing apparatus for fire fighting if necessary. 6. ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Environmental precautions

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep container tightly closed in a dry and well-ventilated place.

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

Special protective equipment for fire-fighters

disposal. 7. HANDLING AND STORAGE

Methods for cleaning up

Do not let product enter drains.

Handling

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

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).

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If

Contains no substances with occupational exposure limit values.

Handle with gloves. Sigma-Aldrich Corporation

Safety glasses with side-shields conforming to EN166

Skin and body protection

9. PHYSICAL AND CHEMICAL PROPERTIES

Hygiene measures

Hand protection

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Eye protection

Choose body protection according to the amount and concentration of the dangerous substance at the work

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

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Appearance Form

Melting point

Density

Lower explosion limit

of workday.

liquid Safety data no data available рΗ

-80 °C (-112 °F) - lit.

280 °C (536 °F)

1.076 g/mL at 25 °C (77 °F)

3.1 %(V)

169 - 170 °C (336 - 338 °F) at 93 hPa (70 mmHg) - lit. Boiling point Flash point 70 °C (158 °F) - closed cup Ignition temperature

Water solubility no data available Relative vapour - (Air = 1.0)density

Upper explosion limit 16 %(V)

Materials to avoid Strong oxidizing agents Hazardous decomposition products

Potential Health Effects Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Skin

Eyes

Ingestion

no data available

Ecotoxicity effects no data available

Further information on ecology

Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

Marine pollutant: No

NA-Number: 1993 Class: CBL

Poison Inhalation Hazard: No

DOT (US)

IMDG

Additional Information RTECS: AK5775000

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Not dangerous goods IATA Not dangerous goods

Proper shipping name: Combustible liquid, n.o.s. (Methyl acetoacetate)

16. OTHER INFORMATION Aldrich - 537365

WHMIS Classification

Further information

В3

D2B

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 Co., shall not be held liable for any damage resulting from handling or from contact with

DSL Status All components of this product are on the Canadian DSL list.

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Combustible Liquid

Moderate eye irritant

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Packing group: III

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Hazardous decomposition products formed under fire conditions. - Carbon oxides 11. TOXICOLOGICAL INFORMATION Acute toxicity LD50 Oral - rat - 3,228 mg/kg Irritation and corrosion Skin - rabbit - Mild skin irritation - 24 h Sensitisation no data available Chronic exposure Sigma-Aldrich Corporation Aldrich - 537365 Page 3 of www.sigma-aldrich.com

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

10. STABILITY AND REACTIVITY Storage stability Stable under recommended storage conditions.

No component of this product present at levels greater than or equal to 0.1% is identified as IARC: probable, possible or confirmed human carcinogen by IARC.

Causes eye irritation.

Elimination information (persistence and degradability)

May be harmful if swallowed.

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

15. REGULATORY INFORMATION

Combustible Liquid

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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