Company

Telephone

Emergency Phone #

Fax

Material Safety Data Sheet

Version 3.0 Revision Date 08/19/2009 Print Date 10/15/2009

Product name : 3-Penten-2-one

1. PRODUCT AND COMPANY IDENTIFICATION

Product Number 145017 Brand Aldrich

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: +1 9058299500 : +1 9058299292

: Sigma-Aldrich Canada, Ltd.

: 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS Synonyms Methyl propenyl ketone

C₅H₈O Formula Molecular Weight : 84.12 g/mol

CAS-No. EC-No. Index-No. Pent-3-en-2-one

625-33-2 210-888-3

3. HAZARDS IDENTIFICATION Emergency Overview

Target Organs Nerves., Liver

Other hazards which do not result in classification

Lachrymator.

WHMIS Classification В2 Flammable Liquid

D1B D2B

HMIS Classification Health Hazard: 2

3 Flammability: 0 Physical hazards: Aldrich - 145017

Chronic Health Hazard:

May be harmful if inhaled. Causes respiratory tract irritation.

Toxic if absorbed through skin. Causes skin irritation.

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

Gauses eye irritation. May be harmful if swallowed.

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Flammable Liquid

Toxic by skin absorption

Moderate skin irritant Moderate respiratory irritant Moderate eye irritant

4. FIRST AID MEASURES

Potential Health Effects

Inhalation

Ingestion

General advice

Skin

Lyes

Wash off with soap and plenty of water. Consult a physician. In case of eye contact

water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of

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

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

a physician. 5. FIRE-FIGHTING MEASURES

Flammable properties Flash point

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

Ignition temperature no data available

Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

Further information Use water spray to cool unopened containers. 6. ACCIDENTAL RELEASE MEASURES

concentrations. Vapours can accumulate in low areas.

Personal precautions Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive

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

21 °C (70 °F) - closed cup

water may be ineffective. Cool all affected containers with flooding quantities of water.

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Handling

Methods for cleaning up

Environmental precautions

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

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

resealed and kept upright to prevent leakage. Store in cool place.

Contains no substances with occupational exposure limit values.

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Storage Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully

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

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

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No component of this product present at levels greater than or equal to 0.1% is identified as

Cough, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and

May be harmful if inhaled. Causes respiratory tract irritation.

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Toxic if absorbed through skin. Causes skin irritation.

probable, possible or confirmed human carcinogen by IARC.

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.

Face shield and safety glasses Skin and body protection

9. PHYSICAL AND CHEMICAL PROPERTIES

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment Respiratory protection

Choose body protection according to the amount and concentration of the dangerous substance at the work. place. Hygiene measures

liquid

no data available

no data available

no data available

0.862 g/mL at 25 °C (77 °F)

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Appearance Form Safety data

рΗ

Density

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Water solubility

10. STABILITY AND REACTIVITY

Eye protection

Melting point no data available Boiling point 121 - 124 °C (250 - 255 °F) - lit. 21 °C (70 °F) - closed cup Flash point

Ignition temperature

Lower explosion limit no data available Upper explosion limit no data available Vapour pressure 1,013 hPa (760 mmHg) at 121 °C (250 °F)

Storage stability Stable under recommended storage conditions. Conditions to avoid Heat, flames and sparks.

Materials to avoid Oxidizing agents, Reducing agents, Strong bases

Hazardous reactions

Acute toxicity

no data available Chronic exposure

IARC:

11. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 3,200 mg/kg

LD50 Dermal - rabbit - 431 mg/kg

Irritation and corrosion no data available Sensitisation

Signs and Symptoms of Exposure

toxicological properties have not been thoroughly investigated.

Causes eye irritation.

Nerves., Liver,

May be harmful if swallowed.

Hazardous decomposition products

Vapours may form explosive mixture with air.

Skin Eyes Ingestion Target Organs

no data available

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Product

DOT (US)

Ecotoxicity effects no data available

Inhalation

Potential Health Effects

Additional Information RTECS: SB3850000

12. ECOLOGICAL INFORMATION Elimination information (persistence and degradability)

no data available 13. DISPOSAL CONSIDERATIONS

Dispose of as unused product.

UN-Number: 1992 Class: 3 (6.1)

14. TRANSPORT INFORMATION

Further information on ecology

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Contaminated packaging

Proper shipping name: Flammable liquids, toxic, n.o.s. (Pent-3-en-2-one) Marine pollutant: No Poison Inhalation Hazard: No

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

16. OTHER INFORMATION

WHMIS Classification

D1B

D2B

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B2 Flammable Liquid

UN-Number: 1992 Class: 3 (6.1) EMS-No: F-E, S-D Packing group: II Proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. (Pent-3-en-2-one) Marine pollutant: No IATA UN-Number: 1992 Class: 3 (6.1) Packing group: II Proper shipping name: Flammable liquid, toxic n.o.s. (Pent-3-en-2-one) IATA Passenger: Not permitted for transport 15. REGULATORY INFORMATION

> Flammable Liquid Toxic by skin absorption

Moderate skin irritant

Moderate respiratory irritant

Packing group: II

Moderate eye irritant

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Concentration

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

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