

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Hexan-3-one
 Product Number : 46206
 Brand : Fluka
 Company : Sigma-Aldrich Canada, Ltd
 2149 Winston Park Drive
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 CANADA
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C6H12O
 Molecular Weight : 100.16 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Hexan-3-one			
589-38-8	209-645-4	-	-

3. HAZARDS IDENTIFICATION**WHMS Classification**

B2 Flammable Liquid
 D2B

Flammable Liquid
 Moderate skin irritant
 Moderate respiratory irritant
 Moderate eye irritant

HMS Classification

Health Hazard: 2
Flammability: 3
Physical hazards: 0

Potential Health Effects

Inhalation : May be harmful if inhaled. Causes respiratory tract irritation.
Skin : May be harmful if absorbed through skin. Causes skin irritation.
Eyes : Causes eye irritation.
Ingestion : May be harmful if swallowed.

4. FIRST AID MEASURES**General advice**

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

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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

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

If swallowed

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

5. FIRE-FIGHTING MEASURES**Flammable properties**

Flash point : 23 °C (73 °F) - closed cup
 Ignition temperature : no data available

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 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**Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

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). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE**Handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
 Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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. Store in cool place.

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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.

Eye protection

Safety glasses

Skin and body protection

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

Hygiene measures

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 : liquid
 Colour : light yellow

Safety data

pH : no data available
 Melting point : no data available
 Boiling point : 123 °C (253 °F) at 1,013 hPa (760 mmHg)
 Flash point : 23 °C (73 °F) - closed cup
 Ignition temperature : no data available
 Lower explosion limit : no data available
 Upper explosion limit : no data available
 Density : 0.815 g/cm3
 Water solubility : no data available

10. STABILITY AND REACTIVITY**Storage stability**

Stable under recommended storage conditions.

Conditions to avoid

Heat, flames and sparks.

Materials to avoid

Oxidizing agents, Reducing agents, Strong bases

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Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Hazardous reactions

Vapours may form explosive mixture with air.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

LD50 Oral - rat - 2,901.4 mg/kg
 LD50 Dermal - rabbit - 2,583.6 mg/kg

Irritation and corrosion

Skin - rabbit - Mild skin irritation
 Eyes - rabbit - Mild eye irritation

Sensitisation

no data available

Chronic exposure

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.

Potential Health Effects

Inhalation : May be harmful if inhaled. Causes respiratory tract irritation.
Skin : May be harmful if absorbed through skin. Causes skin irritation.
Eyes : Causes eye irritation.
Ingestion : May be harmful if swallowed.

Additional information

RTECS: MP1575000

12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)**

no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available

13. DISPOSAL CONSIDERATIONS**Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. 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.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

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DOT (US)

UN-Number: 1224 Class: 3 Packing group: III
 Proper shipping name: Ketones, liquid, n.o.s. (Hexan-3-one)
 Marine pollutant: No
 Poison Inhalation Hazard: No

IMDG

UN-Number: 1224 Class: 3 Packing group: III EMS-No: F-E, S-D
 Proper shipping name: KETONES, LIQUID, N.O.S. (Hexan-3-one)
 Marine pollutant: No

IATA

UN-Number: 1224 Class: 3 Packing group: III
 Proper shipping name: Ketones, liquid n.o.s. (Hexan-3-one)

15. REGULATORY INFORMATION**DSL Status**

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

WHMIS Classification

B2 Flammable Liquid
 D2B

Flammable Liquid
 Moderate skin irritant
 Moderate respiratory irritant
 Moderate eye irritant

16. OTHER INFORMATION**Further information**

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