

Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: 2-hydroxycyclobutan-1-one

Catalog Number: P47312

CAS Number: 17082-63-2

FOR R&D use only

Supplier: AChemBlock(Advanced ChemBlocks Inc), 26120 Eden Landing Rd, Suite 1
Hayward, CA 94545, USA. Tel: (650) 692 2368

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable Liquids

Acute toxicity, Oral (Category 4)

Skin corrosion/irritation (Category 2)

Acute toxicity, Inhalation (Category 3)

Germ cell mutagenicity (Category 2)

Carcinogenicity (Category 2)

Specific target organ toxicity - repeated exposure (Category 2)

Chronic aquatic toxicity (Category 2)

GHS Label elements, including precautionary Statements

Pictogram:



Signal word: Danger

Hazard statement(s):

H222 Extremely flammable aerosol

H302 Harmful if swallowed

H315 Causes skin irritation

H331 Toxic if inhaled

H341 Suspected of causing genetic defects

H351 Suspected of causing cancer

H373 May cause damage to organs through prolonged or repeated exposure

H411 Toxic to aquatic life with long-lasting effects

Precautionary Statement(s):

P201 Obtain special instructions before use.

P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353	IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

3. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient name:	2-hydroxycyclobutan-1-one
CAS number:	17082-63-2
Molecular Formula:	C ₄ H ₆ O ₂
Molecular Weight:	86.09

4. FIRST AID MEASURES

In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and 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:

Wash off with soap and plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician.

If swallowed:

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

5. FIREFIGHTING MEASURES

Suitable extinguishing media:

Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.

Special protective equipment for firefighters:

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. Evacuate personnel to safe areas.

Environmental precautions:

Do not let product enter drains.

Methods and Materials for containment and cleaning up

Absorb spills on sand or vermiculite and place in closed container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wash thoroughly after handling.

Conditions for safe storage:

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

Recommended storage temperature:

Store at -20 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Engineering Controls:

Use only in a chemical fume hood.

Personal Protective equipment:

Wear chemical-resistant gloves, safety goggles.

General Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	colorless oil
Odor:	not available
Boiling point:	not available
Melting point:	not available
Flash Point:	not available
Density:	not available

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage conditions
Materials to avoid:	Heat, Flames and Sparks
Conditions to avoid:	No data available
Possible hazardous combustion products:	carbon oxide

11. Toxicological information

No Data.

12. ECOLOGICAL INFORMATION

No Data.

13. DISPOSAL CONSIDERATIONS

Arrange disposal as special waste, by licensed disposal company, in consultation with local waste disposal authority, in accordance with national and regional regulations.

14. Transportation information

Non-hazardous for air and ground transportation. Or not available.

15. Regulatory Information

Indication of danger: No data

Risk Statement: No data

Safety Statement: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

16. Other information

Revision: 2

Revision Date: Update: 2024-01-01

The above information is believed to be correct at the date of its publication but does not supposed to be all-inclusive and shall be used only as a guide.

Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

AChemBlock(Advanced ChemBlocks Inc) should not be held liable for any damage resulting from handling or from contact with the above product.