Safety Data Sheet

1. Identification of the substance

1.1. Product identifiers: Product Name: 1-Hydroxycyclopentane-1-carbonitrile

Synonyms:

Catalog number: OT-2624 CAS Number: 5117-85-1

1.2. Identified use: Laboratory chemicals, for scientific research and development only.

1.3. Supplier: Combi-Blocks, Inc., 7949 Silverton Ave # 915, San Diego, CA 92126, USA. Tel: 858-

635-8950. Email: sales@combi-blocks.com.

1.4. Emergency Contact: During normal business hours (Monday-Friday 8am-5pm PST), call 1-858-635-8950. Af-

ter business hours, call Infotrac at 1-800-535-5053 (USA) or 1-352-323-3500 (interna-

tional).

2. Hazards identification

2.1. Classification of the substance or mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity,oral (Category 1, 2), H300 Acute toxicity,dermal (Category 1, 2), H310 Skin corrosion/irritation (Category 2), H315

Serious eye damage/eye irritation (Category 1), H318 Serious eye damage/eye irritation (Category 2), H319 Acute toxicity,inhalation (Category 1, 2), H330

Hazardous to the aquatic environment, acute hazard (Category 1), H400 Hazardous to the aquatic environment, long-term hazard (Category 1), H410

2.2. GHS Label elements, including precautionary statements:

Pictograms

Signal word Danger

Hazard statement(s).

H300 Fatal if swallowed
 H310 Fatal in contact with skin
 H315 Causes skin irritation
 H318 Causes serious eye damage
 H319 Causes serious eye irritation

H330 Fatal if inhaled

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s).

P260 Do not breathe dust/fume/gas/mist/vapours/spray.P262 Do not get in eyes, on skin, or on clothing.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 Wear respiratory protection.

P301+P310+P330 If swallowed: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

P302+P350+P310 If on skin: Gently wash with plenty of soap and water. Immediately call a POISON

CENTER or doctor/physician.

P304+P340+P310 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breath-

ing. Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338+P310 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses

if present and easy to do, continue rinsing. Immediately call a POISON CENTER or

doctor/physician.

P332+P313 If skin irritation occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: get medical advice/attention.
 P361 Remove/Take off immediately all contaminated clothing.
 P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

P403+P233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients.

3.1. Substances

COMPONENT	CLASSIFICATION	CONCENTRATION
1-Hydroxycyclopentane-1-carbonitrile	H300, H310, H315, H318, H319,	≤ 100
	H330, H400, H410	

See Section 2 for full text of hazard statements.

4. First aid measures

4.1. Description of first aid measures.

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of

dangerous area.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Im-

mediately call a POISON CENTER or doctor/physician.

In case of skin contact: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or

doctor/physician.

In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and

easy to do, continue rinsing. Immediately call a POISON CENTER or doctor/physician.

If swallowed: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed:

See Section 2.2 and/or in Section 11.

4.3. Indication of any immediate medical attention and special treatment needed:

No data.

5. Fire fighting measures

5.1. Extinguishing media: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

5.2. Special hazards arising from the substance or mixture: Carbon monoxide, nitrogen oxides.

5.3. Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

5.4. Further information: No data available.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Use personal protective equipment.

6.2. Environmental precautions:

Should not be released into the environment. See Section 12 for additional ecological information.

6.3. Methods and materials for containment and cleaning up:

Sweep up or vacuum up spillage and collect in suitable container for disposal.

6.4. Reference to other sections:

Refer to protective measures listed in Sections 8 and 13.

7. Handling and storage

7.1. Precautions for safe 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. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities: Store refrigerated. 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.

7.3. Specific end use(s): Laboratory chemicals, for scientific research and development only.

8. Exposure Controls / Personal protection

8.1. Control parameters:

Components with workplace control parameters: Contains no substances with occupational exposure limit values.

8.2. Exposure controls:

Appropriate engineering controls: Ensure that eyewash stations and safety showers are close to the workstation

location. Ensure adequate ventilation, especially in confined areas. Use only under a

chemical fume hood.

Personal protective equipment:

Eye/face protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin 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

Body Protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.,

The type of protective equipment must be selected according to the concentration and

amount of the dangerous substance at the specific workplace.

Respiratory protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Stan-

dard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if

exposure limits are exceeded or if irritation or other symptoms are experienced.

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Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter

drains.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

(a)	Appearance:	Liquid
(b)	Odour:	No data
(c)	Odour Threshold:	No data
(d)	pH:	No data
(e)	Melting point/freezing point:	No date.
(f)	Initial boiling point and boiling range:	No data
(g)	Flash point:	No data
(h)	Evaporatoin rate:	No data
(i)	Flammability (solid, gas):	No data
(j)	Upper/lower flammability or explosive limits:	No data
(k)	Vapour pressure:	No data
(1)	Vapour density:	No data
(m)	Relative density:	No data
(n)	Water solubility:	No data
(o)	Partition coefficient: n-octanol/water:	No data
(p)	Auto-ignition:	No data
(q)	Decomposition temperature:	No data
(r)	Viscosity:	No data
(s)	Explosive properties:	No data
(t)	Oxidizing properties:	No data

9.2. Other safety information:

Formula C_6H_9NO Molecular weight 111.1 CAS Number 5117-85-1 10.1. Reactivity No data

10.2. Chemical stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions No data

10.4. Conditions to avoid

10.5. Incompatible material Explosives, flammable/toxic gases, flammable liquid, flammable solid, spontaneously com-

bustible substances, substances which are dangerous when wet, oxidizing substances, or-

ganic peroxides, poisons, infectious substances, radioactive materials.

10.6. Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions: Carbon monoxide, nitrogen oxides.

Other decomposition products: No data
In the event of fire: See Section 5.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Fatal if swallowed. Fatal in contact with skin. Fatal if inhaled. .

Skin irritation/corrosion: Fatal if inhaled.

Eye damage/irritation: Causes serious eye damage. Causes serious eye irritation.

Respiratory or skin sensitization:
Germ cell mutagenicity:
Carcinogenicity:
No data available.
No data available.
Reproductive toxicity:
No data available.

Specific target organ system toxicity - single exposure: No data available. Specific target organ system toxicity - repeated exposure: No data available.

Aspiration hazard: No data available.

Additional information: To the best of our knowledge, the chemical, physical and toxicological proper-

ties of this substance have not been thoroughly investigated.

12. Ecological information

12.1. Toxicity Very toxic to aquatic life.

12.2. Persistence and degradability Very toxic to aquatic life with long lasting effects.

12.3. Bioaccumulative potential No data available
12.4. Mobility in soil No data available
12.5. Results of PBT and vPvB assessment No data available.
12.6. Other adverse effects No data available.

13. Disposal Considerations

13.1. Waste treatment methods

Product Arrange disposal as special waste, by licensed disposal company, in consultation with

local waste disposal authority, in accordance with national and regional regulations.

Contaminated packaging Dispose of as unused product.

14. Transportation information

DOT (US), IMDG and IATA:

UN Number: UN3439 Class: 6.1 Packing group: II

Proper shipping name: NITRILES, SOLID, TOXIC, N.O.S. (1-Hydroxycyclopentane-1-carbonitrile)

15. Regulatory information

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, or have known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

16. Other information

This MSDS is correct to the best of our knowledge at the date of publication but does not purport to be all inclusive and shall be used only as a guide. Combi-Blocks shall not be held liable for any injury or damage resulting from handling or from contact with the above product.