



Banff Green Technologies, Inc

TEL: 86-21-54795870 FAX: 86-21-54795870 Email: sales@banffgt.com
ADDRESS: Floor 29, CapitaMalls Plaza, No. 6088 Humin Rd., Minhang Dist., Shanghai 201100, China

Material Safety Data Sheet

★ SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : 4-Cyanotetrahydropyran

REACH No. : Not available.

CAS No.: 4295-99-2

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses:

This product is provided solely for the purpose of research and development.

Details of the supplier of the safety data sheet

Company: Banff Green Technologies, Inc.

Address: Floor 29, CapitaMalls Plaza, No. 6088 Humin Rd.,
Minhang Dist., Shanghai 201100
CHINA

Telephone/Fax: +86 21-54795870

E-mail address: sales@banffgt.com

1.3 Emergency telephone number

Emergency Phone #: +86 21-61995660

★ SECTION 2: Hazards identification

EMERGENCY OVERVIEW

Irritant

Harmful by inhalation, in contact with skin and if swallowed.

Avoid prolonged exposure.

Do Not breathe vapor.

Use caution when handling.

Exposure to any chemical should be limited.

To the best of our knowledge, the health hazards of this product have not been fully investigated.

★ SECTION 3: Composition/information on ingredients



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Molecular Formula: C₆H₉NO

Molecular Weight: 111.14

Boiling point: 224.03°C

Density: 1.012

Flash point: 92.165°C

★ SECTION 4: First aid measures

Eyes: Check for and remove any contact lenses. Immediately flush eyes with copious amounts of clean, running water for at least 15 minutes while keeping eyes open. Cool water may be used. Seek medical attention.

Skin: After contact with skin, wash with generous quantities of running water for at least 15 minutes while removing contaminated clothing and shoes. Gently and thoroughly wash affected area with running water and non-abrasive soap. Cool water may be used. Cover the affected area with emollient. If irritation persists, seek medical attention. Wash any contaminated clothing prior to reusing.

Ingestion: Do NOT induce vomiting. Wash out mouth with copious amounts of water for at least 15 minutes. Give water to victim to drink. Seek medical attention.

Inhalation: Remove the victim from the source of exposure to fresh, uncontaminated air. If victim's breathing is difficult, administer oxygen. In severe cases or if symptoms persist, seek medical attention.

Notes to Physician:

★ SECTION 5: Firefighting measures

General Information

In the event of a fire involving this material, alone or in combination with other materials, use dry powder or carbon dioxide extinguishers. Protective clothing and self-contained breathing apparatus should be worn.

Extinguishing Media

Carbon dioxide, dry chemical powder, alcohol or polymer foam.

Special fire fighting procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosion hazards/decomposition of product

Emits toxic fumes under fire conditions.

★ SECTION 6: Accidental release measures



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General Information

Steps to be taken if material is spilled or otherwise released into the environment - Wear appropriate respirator, impervious boots and heavy rubber (or otherwise impervious) gloves. Scoop up solid material or absorb liquid material and place into appropriate container. Ventilate area and wash affected spill area after pickup is complete. Wash skin immediately with plenty of water. Place solid or absorbed material into containers and close for disposal.

Spills/Leaks

Mix with sand or similar inert absorbent material, sweep up and keep in a tightly closed container for disposal.

Personal precautions

Wear suitable personal protective equipment which performs satisfactorily and meets local/state/national standards.

★ SECTION 7: Handling and storage

General information

This product should be handled only by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data given on this sheet.

Do not breath dust or vapor.

Have safety shower and eye wash available.

Do not get in eyes, on skin or on clothing.

Ensure adequate ventilation during use.

Use only in a chemical fume hood.

Handling

This product should be handled only by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data given on this sheet.

Storage

Store in closed vessels, under -20°C .

★ SECTION 8: Exposure controls/personal protection

Engineering Controls

Use only in a chemical fume hood.

Personal Protective Equipment

Eyes:

Wear Protective safety goggles.

Skin:



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After contact with skin, wash immediately.

Clothing:

Wear chemical-resistant gloves, protective clothing and chemical-resistant boots.

Respirators:

General hygiene measures:

Ensure ventilation during use. After contact with skin, wash immediately.

★ SECTION 9: Physical and chemical properties

Molecular Formula: C₆H₉NO

Molecular Weight: 111.14

Boiling point: 224.03°C

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★ SECTION 10: Stability and reactivity

Conditions to avoid:

Heat, flames and sparks.

Incompatibilities with Other Materials:

Strong oxidizing agents, strong acids and bases.

Hazardous combustion or Decomposition products

Carbon carbon monoxide, carbon dioxide, nitrogen oxides of nitrogen, hydrogen chloride.

★ SECTION 11: Toxicological information

Acute effects:

Irritant

May be harmful by ingestion and inhalation.

Material is irritating to mucous membranes and upper respiratory tract.

To the best of our knowledge, the toxicological properties of this product have not been fully investigated or determined.

★ SECTION 12: Ecological information

Environmental precautions:

Do not allow material to enter drains or water courses.



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★ SECTION 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. Absent other actions demanded by federal or local regulations - Dissolve or mix the material with a combustible solvent and burn in a regulated, chemical incinerator equipped with after burner and scrubber.

★ SECTION 14: Transport information

Shipping Name

Classed non-hazardous for air and ground transportation.

★ SECTION 15: Regulatory information

Adhere to all Federal, State and local regulations.

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.

★ SECTION 16: Other information

The information contained herein is accurate to the best of our knowledge and belief at the date of its publication, but is not meant to be complete and is included only as a guide. The end user is responsible for any damage resulting from handling or from contact with this product. We cannot accept liability for any loss, injury or damage which may result from its use.