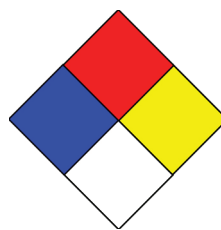




An ISO 9001:2015 Company



|                     |
|---------------------|
| Health              |
| Fire                |
| Reactivity          |
| Personal Protection |

## SAFETY DATA SHEET

### (1S)-2,2-difluorocyclohexan-1-amine hydrochloride

#### Section 1: Chemical Product and Company Identification

ID: D20887

Name: (1S)-2,2-difluorocyclohexan-1-amine hydrochloride

CAS: 1638744-12-3

RTECS: Not Available

TSCA: Not TSCA regulated

Alt Name: NA

Chemical

Formula: C<sub>6</sub>H<sub>11</sub>F<sub>2</sub>N.CI.H

Contact Information:

Synthonix, Inc.

2713 Connector Drive

Wake Forest, NC 27587

Ph: 1-919-875-9277

CHEMTREC (24HR EMERGENCY TELEPHONE),  
call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

#### Section 2: Hazards Identification

GHS Label elements, including precautionary statements:

Signal Word: Warning

Acute toxicity, oral (Category 4) - H302

Skin corrosion/irritation (Category 2) - H315

Serious eye damage/eye irritation (Category 2A) - H319

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3) - H335

Pictogram



Hazard statement(s)

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

Precautionary statement(s)

P261 - Avoid breathing dust/fumes/gas/mist/vapours/spray.

Section 3: Composition

Composition:

| Name:                                             | CAS #        | % by Weight |
|---------------------------------------------------|--------------|-------------|
| (1S)-2,2-difluorocyclohexan-1-amine hydrochloride | 1638744-12-3 | 100%        |
|                                                   |              |             |
|                                                   |              |             |
|                                                   |              |             |
|                                                   |              |             |

Section 4: First Aid Measures

Eye Contact:

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Skin Contact:

In case of contact, immediately wash skin with soap and copious amounts of water.

Serious Skin Contact:

In case of contact, immediately wash skin with soap and copious amounts of water. Seek medical attention immediately.

Inhalation:

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Serious Inhalation:

Not available

Ingestion:

If swallowed, wash out mouth with water provided person is conscious. Call a physician. Wash contaminated clothing before reuse.

Serious Ingestion:

Not available

## SDS

(1S)-2,2-difluorocyclohexan-1-amine hydrochloride

### Section 5: Fire and Explosion Data

**Flammability of the Product:** Not available

**Auto-Ignition Temperature:** Not available

**Flash Point:** Not available

**Flammable Limit:** Not available

**Products of Combustion:** Not available

**Fire Hazards in Presence of Various Substances:** Not available

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available

Risks of explosion of the product in presence of static discharge: Not available

**Fire Fighting Media and Instructions:** N/A

**Special Remarks on Fire Hazards:**

Not available

**Special Remarks on Explosion Hazards:**

Not available

### Section 6: Accidental Release Measures

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Large Spill:**

Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

### Section 7: Handling and Storage

**Precautions:** For precautions see section 2

**Storage:** Keep container tightly closed. Keep container in a cool refrigerated, well-ventilated area. Moisture sensitive.

## SDS

(1S)-2,2-difluorocyclohexan-1-amine hydrochloride

### Section 8: Exposure Controls/Personal Protection

#### Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### Personal Protection:

Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

#### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

#### Exposure Limits:

Not available.

### Section 9: Physical and Chemical Properties

**Physical state and appearance:** Solid

**Odor:** Not available.

**Taste:** Not available.

**Molecular Weight:** 171.616g/mole

**Color:**

**pH (1% soln/water):** Not available.

**Boiling Point:** Not available.

**Melting Point:** Not available.

**Critical Temperature:** Not available.

**Specific Gravity:** Not available.  
**Vapor Pressure:** Not available.  
**Vapor Density:** Not available.  
**Volatility:** Not available.  
**Odor Threshold:** Not available.  
**Water/Oil Dist. Coeff.:** Not available.  
**Ionicity (in Water):** Not available.  
**Dispersion Properties:** Not available.  
**Solubility:**  
Not available.

## SDS

(1S)-2,2-difluorocyclohexan-1-amine hydrochloride

### Section 10: Stability and Reactivity Data

**Stability:** Not available.  
**Instability Temperature:** Not available.  
**Conditions of Instability:**  
Excess heat, incompatible materials, moisture. May decompose on contact with moist air or water.  
  
**Incompatibility with various substances:** Not available.  
**Corrosivity:** Non-corrosive in presence of glass.  
**Special Remarks on Reactivity:**  
Not available.  
  
**Special Remarks on Corrosivity:**  
Not available.  
  
**Polymerization:** Not available.

### Section 11: Toxicological Information

**Routes of Entry:** Unknown.  
**Toxicity to Animals:** Not available.

**Chronic Effects on Humans:**

Not available.

**Other Toxic Effects on Humans:**

Not available.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:**

Not available.

**Special Remarks on other Toxic Effects on Humans:**

Not available.

**SDS**

(1S)-2,2-difluorocyclohexan-1-amine hydrochloride

**Section 12: Ecological Information**

**Ecotoxicity** Not available.

**BOD5 and** Not available.

**Products of Biodegradation:**

Unknown

**Toxicity of the Products of Biodegradation:** Not available.

**Special Remarks on the Products of Biodegradation:**

Not available.

**Section 13: Disposal Considerations**

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

#### Section 14: Transport Information

**DOT Classification:** Not regulated by IATA

**Identification:**

Not available

**Special Provisions for Transport:** Not available.

#### Section 15: Other Regulatory Information

**Federal and State Regulations:**

California prop. 65: This product contains ingredients known to the State of California to cause cancer, birth defects or other reproductive harm.

**Other Regulations:** Not Available.

**Other Classifications:** Not Available.

**WHMIS (Canada):**

Not Available.

## SDS

(1S)-2,2-difluorocyclohexan-1-amine hydrochloride

**DSCL (EEC):**

Not Available.

**HMIS (U.S.A.):**

**Health Hazard:** Not Available

**Fire Hazard:** Not Available

**Reactivity:** Not Available

**Personal Protection:** Not Available

**National Fire Protection Association (U.S.A.):**

**Health:** Not Available

**Fire:** Not Available  
**Reactivity:** Not Available  
**Specific Hazard:** Not Available  
**Protective Equipment:**  
Not Available

#### Section 16: Other Information

**References:** N/A

**Other Special Considerations:** N/A

**Created:** 6/08/2016

**Last Updated:** 1/19/2022

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Synthonix, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Synthonix, Inc. has been advised of the possibility of such damages.*