

## SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

#### **1.1 Product identifier**

Reference: DA01M62H CAS number: 2253638-76-3 Name: 3.3-Difluoro-4.4-dimethylpyrrolidine hydrochloride

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals. manufacture of chemical compounds Restrictions on use: For use in laboratory only.

## 1.3 Supplier

Company: Indagoo Research Chemicals Registry number: 81777290 REACH number. No data available

## 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture under CLP according to (EC) 1272/2008

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 For the full text of the H-Statements mentioned in this Section. see Section 16.

## 2.2 Label elements



Signal word: warning

Hazard statements H302 Harmful if swallowed H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation

#### **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.Remove contactlenses.if present and easy to do. Continue rinsing.

## 2.3 Other hazards

None



## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: 3.3-Difluoro-4.4-dimethylpyrrolidine hydrochloride CAS Number: 2253638-76-3 Molecular Formula: C6H12CIF2N Molecular Weight: 171.6160 g/mol

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

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2 or section 11)

#### **4.3 Indication of any immediate medical attention and special treatment needed** no data available

## 5. FIREFIGHTING MEASURES

**5.1 Extinguishing media Suitable extinguishing media** Use water spray. alcohol-resistant foam. dry chemical or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

Carbon oxides. nitrogen oxides (NOx). Hydrogen bromide gas

#### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours. mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable. closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.



#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.

#### 7.2 Conditions for safe storage, including any incompatibilities

Room Temperature. Inert atmosphere.

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1. no other specific uses are stipulated

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### 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. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

Appearance / Physical state: solid Odour: no data available Odour threshold: no data available pH: no data available Melting point: no data available Boiling point: no data available Flash point: no data available



Evaporation rate: no data available Flammability: no data available Upper/lower flammability or explosive limits: No data available Vapour pressure: no data available Vapour density: no data available Relative density: no data available Water solubility: no data available Partition coefficient (n-octanol/water): no data available Auto-ignition temperature: no data available Decomposition temperature: no data available Log Pow: no data available Viscosity: no data available Explosive properties: no data available Oxidising properties: no data available

9.2. Other safety information

no data available

## **10. STABILITY AND REACTIVITY**

- **10.1 Reactivity:** no data available
- **10.2 Chemical stability:** Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions: no data available
- 10.4 Conditions to avoid: no data available
- 10.5 Incompatible materials: no data available
- 10.6 Hazardous decomposition products: no data available
- 10.7 In case of fire: See section 5

## **11. TOXICOLOGICAL INFORMATION**

- 11.1 Acute toxicity: Classified based on available data. For more details. see section 2
- 11.2 Skin corrosion: Classified based on available data. For more details. see section 2
- 11.3 Serious eye damage: Classified based on available data. For more details. see section 2
- 11.4 Respiratory or skin sensitisation: Classified based on available data. For more details. see section 2

11.5 Germ cell mutagenicity: Classified based on available data. For more details. see section 2

## 11.6Carcinogenicity:

**11.6.1 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

**11.6.2 ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

**11.6.3 NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

**11.6.4 OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## 11.7 Reproductive toxicity

11.7.1. Specific target organ toxicity - single exposure: no data available

11.7.2. Specific target organ toxicity - repeated exposure: no data available

11.8 Aspiration hazard: no data available

11.9 Additional information: no data available



## **12. ECOLOGICAL INFORMATION**

12.1 Toxicity: no data available

**12.2 Persistence and degradability:** no data available

12.3 Bioaccumulative potential: no data available

12.4 Mobility in soil: no data available

12.5 Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Endocrine disrupting properties:** No data available

12.7 Other adverse effects: no data available

## 13. DISPOSAL CONSIDERATIONS

**13.1 Waste from residues / unused products:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

13.2 Contaminated packaging: Dispose of as unused product.

13.3 European Waste Catalogue (EWC): No data available

#### **14. TRANSPORT INFORMATION** 14.1 UN number ADR/RID: IMDG: IATA-DGR: 14.2 Proper shipping name ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA-DGR: Not dangerous goods 14.3 Transport hazard class(es) ADR/RID: IMDG: IATA-DGR: 14.4 Packing group ADR/RID: IMDG: IATA-DGR: 14.5 Environmental hazards ADR/RID: -IMDG: -IATA-DGR: -14.6 Special precautions for user No data available 14.7 Transport in bulk according to IMO instruments

No data available

## **15. REGULATORY INFORMATION**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Component:** 3.3-Difluoro-4.4-dimethylpyrrolidine hydrochloride



### Regulation:

REACH (1907/2006) - Annex XIV - Substances subject to authorization REACH (1907/2006) - Annex XVII - Restrictions on certain hazardous substances REACH Regulation (EC 1907/2006) Article 59 - Candidate List of Substances of Very High Concern (SVHC)

## **Regulatory listings:**

EINECS, IECSC, ENCS, TCSI, TSCA, NZIOC, PICCS, AICS, DSL

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

## **16. OTHER INFORMATION**

Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation

## **Abbreviations Full Texts**

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR European Agreement concerning the International Carriage of Dangerous Goods by Road **ALARP** As low as is reasonably practicable **CAS** Chemical Abstracts Service **CLP** Classification, Labelling and Packaging Regulations **COSHH** Control of Substances Hazardous to Health EC Number European Community Number **EC50** Effective Concentration 50% **EILINCS** European List of Notified Chemical Substances **EINECS** European Inventory of Existing Commercial Chemical Substances **GHS** Globally Harmonised System HSE Health & Safety Executive UK IATA International Air Transport Association **IM** Intramuscular IMDG The International Maritime Dangerous Goods Code **IP** Intraperitoneal **IV** Intravascular LD50 Lethal Dose 50% LOEC Lowest Observable Effective Concentration LTEL Long Term Exposure Limit NOEC No Observable Effective Concentration **OECD** Organisation for Economic Cooperations and Development **PBT** Persistent Bioaccumulative Toxic **PPE** Personal Protective Equipment **REACH** Registration, Evaluation, Authorisation and Restriction of Chemicals RID Regulations Concerning the International Carriage of Dangerous Goods by Rail SC Subcutaneous **SDS** Safety Data Sheet STEL Short Term Exposure Limit



**STOT** Specific Target Organ Toxicity **VOC** Volatile Organic Compounds **vPvB** Very Persistent and Very Bioaccumulative **WEL** Workplace Exposure Limits

## Training advice:

Training on chemical hazard awareness, including labeling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE), and hygiene

### **Further information**

The above information is believed to be correct but does not purport to be exhaustive and should be used only as a guide. The information in this document is based on our current knowledge and is applicable to the product only with regard to appropriate safety precautions. It does not constitute a guarantee of the product's properties.

**Disclaimer:** Indagoo Research Chemicals shall not be held liable for any damage resulting from handling or contact with the above product. The information provided is believed to be accurate but is not intended to be all-inclusive and shall be used only as a guide. This document does not guarantee the properties or quality of the product.

# This Safety Data Sheet has been prepared in accordance with Commission Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878.