



# Safety Data Sheet (SDS)

www.medkoo.com

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## 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product name: Naloxone HCl  
Product Catalogue Number: 329670  
Brand: MedKoo Biosciences  
CAS-No: 357-08-4

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

Identified uses: Laboratory chemicals, Synthesis of substances.

### 1.3 Details of the supplier of the safety data sheet

Company: MedKoo Biosciences, Inc.  
2500 Gateway Centre Blvd. Suite 400, Morrisville, NC27560, USA  
Telephone: 919-636-5577  
Fax: 919-980-4831

### 1.4 Emergency telephone number

For chemical emergency spill, leak, fire, exposure, or accident call CHEMTREC day or night: Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887 (collect calls accepted).

## 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 4, H302  
Reproductive Toxicity - Category 2, H361

### 2.2 Label elements

#### Pictogram



#### Signal word

Danger

#### Hazard statement(s)

H302: Harmful if swallowed.  
H361: Suspected of damaging fertility or the unborn child.

#### Precautionary statement(s)

P264: Wash skin thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P280: Wear protective gloves/ eye protection/ face protection.  
P301 + P312: IF SWALLOWED: call a POISON CENTER/doctor/... IF you feel unwell.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor/physician.  
P330: Rinse mouth.

### 2.3 Other hazards – no data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Synonyms: EN-15304; EN15304; EN 15304; NIH7890; Naloxone hydrochloride; Narcan; Narcanti; Naloxone  
Formula:  $C_{19}H_{22}ClNO_4$   
Molecular weight: 363.84  
CAS-No: 357-08-4

Component	Classification	Concentration
Naloxone HCl	Acute Tox. 4, H302; Repr. 1B, H361	<= 100 %

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Consult a doctor and show this safety data sheet.

#### If inhaled

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

**In case of skin contact**

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

**In case of eye contact**

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

**If swallowed**

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

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

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**4.3 Indication of immediate medical attention and special treatment needed**

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

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## 5. FIRE-FIGHTING 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

In combustion, may emit toxic fumes.

### 5.3 Precautions for fire-fighters

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

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## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

### 6.2 Environmental precautions

Do not let product enter drains.

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

Cover spillage with suitable absorbent material. Sweep up material and place in an appropriate container. Hold all material for appropriate disposal as described under section 13 of SDS.

### 6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

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

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

Recommended storage temperature: Store at -20°C

### 7.3 Specific end uses

Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

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## 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**

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

**Personal protective equipment**

**Eye/face protection**

Use appropriate safety glasses.

**Skin protection**

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be

inspected before use. Wash and dry hands thoroughly after handling.

### **Body protection**

Wear appropriate protective clothing.

### **Respiratory protection**

If risk assessment indicates necessary, use a suitable respirator.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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

Appearance	White to off-white solid powder	Vapor pressure	No data available
Odor	No data available	Vapor density	No data available
Odor threshold	No data available	Relative density	No data available
pH	No data available	Solubility(ies)	Soluble to 100 mM in water
Melting / freezing point	No data available	Partition coefficient	No data available
Boiling point / range	No data available	Auto-ignition temperature	No data available
Flash point	No data available	Decomposition temperature	No data available
Evaporation rate	No data available	Viscosity	No data available
Flammability (solid, gas)	No data available	Explosive properties	No data available
Upper / lower flammability or explosive limits	No data available	Oxidising properties	No data available

### **9.2 Other safety information**

No data available

## **10. STABILITY AND REACTIVITY**

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### **10.1 Reactivity**

Stable under recommended transport or storage conditions.

### **10.2 Chemical stability**

Stable under recommended storage conditions.

### **10.3 Possibility of hazardous reactions**

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

### **10.4 Conditions to avoid**

Heat, moisture.

### **10.5 Incompatible materials**

Strong acids/alkalis, strong oxidizing/reducing agents.

### **10.6 Hazardous decomposition products**

In combustion may emit toxic fumes. No known decomposition information.

## **11. TOXICOLOGICAL INFORMATION**

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### **11.1 Information on toxicological effects**

*Acute Toxicity - Naloxone hydrochloride*: ORL-RAT LD50: >1000mg/kg; IVN-WMN TDLo: 32µg/kg; IVN-MAN TDLo:13µg/kg; IPR-RAT LD50: 239mg/kg; SCU-RAT LD50: 500mg/kg; IVN-RAT LD50: 107mg/kg; ORL-MUS LD50: >1gm/kg; SCU-MUS LD50: 286mg/kg; IVN-MUS LD50: 90mg/kg

*RTECS No*: QD2275000

To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated

## **12. ECOLOGICAL INFORMATION**

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### **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**

No data available

### **12.6 Other adverse effects**

No data available

### **13. DISPOSAL CONSIDERATIONS**

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#### **13.1 Waste treatment methods**

##### **Product**

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with National legislation.

##### **Contaminated packaging**

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with National legislation.

### **14. TRANSPORT INFORMATION**

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Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID and IATA.

#### **14.1 UN-Number**

Does not meet the criteria for classification as hazardous for transport.

#### **14.2 UN proper shipping name**

Does not meet the criteria for classification as hazardous for transport.

#### **14.3 Transport hazard class(es)**

Does not meet the criteria for classification as hazardous for transport.

#### **14.4 Packaging group**

Does not meet the criteria for classification as hazardous for transport.

#### **14.5 Environmental hazards**

This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.

#### **14.6 Special precautions for users**

No data available

### **15. REGULATORY INFORMATION**

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This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

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

No data available

#### **California Proposition 65**

Not applicable

#### **15.2 Chemical safety assessment**

A Chemical Safety Assessment has not been made for this product.

### **16. OTHER INFORMATION**

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#### **Further Information**

Copyright © Medkoo Bioscience. This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists. See [www.medkoo.com](http://www.medkoo.com) for additional terms and conditions of sale.

#### **Preparation Information**

MedKoo Biosciences, Inc.

Product Safety – multiple Region

Tel: 919-636-5577

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