



#### 1 - Product

Product Name **N-BENZYLHYDROXYLAMINE HYDROCHLORIDE, 97%**

Product Number **365181**

#### 2 - Hazards Identification

**SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT**

Irritating to eyes, respiratory system and skin.

#### 3 - Composition/Information on Ingredients

Product Name **CAS # EC no Annex I**

Index Number

**N-BENZYLHYDROXYLAMINE 29601-98-7 None None**  
**HYDROCHLORIDE**

Formula **C<sub>7</sub>H<sub>9</sub>NO.HCl**

Molecular Weight **159.62 AMU**

#### 4 - First Aid Measures

**AFTER INHALATION**

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

**AFTER SKIN CONTACT**

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

**AFTER EYE CONTACT**

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

**AFTER INGESTION**

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### 5 - Fire Fighting Measures

**EXTINGUISHING MEDIA**

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

**SPECIAL RISKS**

Specific Hazard(s): Emits toxic fumes under fire conditions.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS**

Wear self-contained breathing apparatus and protective clothing

to prevent contact with skin and eyes.

#### 6 - Accidental Release Measures

##### **PROCEDURE(S) OF PERSONAL PRECAUTION(S)**

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

##### **METHODS FOR CLEANING UP**

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

#### 7 - Handling and Storage

##### **HANDLING**

Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

##### **STORAGE**

Conditions of Storage: Keep tightly closed.

#### 8 - Exposure Controls / Personal Protection

##### **ENGINEERING CONTROLS**

Safety shower and eye bath. Mechanical exhaust required.

##### **GENERAL HYGIENE MEASURES**

Wash thoroughly after handling.

##### **PERSONAL PROTECTIVE EQUIPMENT**

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

#### 9 - Physical and Chemical Properties

Appearance Physical State: Solid

Property Value At Temperature or Pressure

pH N/A

BP/BP Range N/A

MP/MP Range 108.0 - 110.0 °C

Flash Point N/A

Flammability N/A

Autoignition Temp N/A

Oxidizing Properties N/A

Explosive Properties N/A

Explosion Limits N/A

Vapor Pressure N/A

SG/Density N/A

Partition Coefficient N/A

Viscosity N/A

Vapor Density N/A

Saturated Vapor Conc. N/A

Evaporation Rate N/A  
Bulk Density N/A  
Decomposition Temp. N/A  
Solvent Content N/A  
Water Content N/A  
Surface Tension N/A  
Conductivity N/A  
Miscellaneous Data N/A  
Solubility N/A

#### 10 - Stability and Reactivity

##### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

##### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen chloride gas.

##### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

#### 11 - Toxicological Information

##### SIGNS AND SYMPTOMS OF EXPOSURE

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

##### ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

#### 12 - Ecological Information

No data available.

#### 13 - Disposal Considerations

##### SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

#### 14 - Transport Information

##### RID/ADR

Non-hazardous for road transport.

##### IMDG

Non-hazardous for sea transport.

Non-hazardous for air transport.

#### 15 - Regulatory Information

**CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES  
INDICATION OF DANGER: Xi**

Irritant.

**R-PHRASES: 36/37/38**

Irritating to eyes, respiratory system and skin.

**S-PHRASES: 26-37/39**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

Caution: Substance not yet fully tested (EU).

**COUNTRY SPECIFIC INFORMATION**

Germany

**WGK: 3**

Self-Classification

**16 - Other Information**

**WARRANTY**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

**DISCLAIMER**

For R&D use only. Not for drug, household or other uses.

<http://www.sparchem.com>