



## 2-Chlorobenzonitrile, 99%

\*\*\*\* SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \*\*\*\*

**MSDS Name: 2-Chlorobenzonitrile, 99%**

**Catalog Numbers:**

10867-0000, 10867-0010, 10867-2500

**Synonyms:**

OCBN

\*\*\*\* SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*\*

CAS#	Chemical Name	%	EINECS#	Haz Symbols	Risk Phrases
873-32-5	2-Chlorobenzonitrile	99%	212-836-5		

Hazard Symbols: XN

Risk Phrases: 21/22 36

\*\*\*\* SECTION 3 - HAZARDS IDENTIFICATION \*\*\*\*

### EMERGENCY OVERVIEW

Harmful in contact with skin and if swallowed. Irritating to eyes.

#### Potential Health Effects

**Eye:**

Causes eye irritation.

**Skin:**

May cause skin irritation. Harmful if absorbed through the skin.

**Ingestion:**

Harmful if swallowed. May cause irritation of the digestive tract.

**Inhalation:**

May cause respiratory tract irritation. May be harmful if inhaled.

**Chronic:**

Not available.

\*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\*

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:**

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:**

Get medical aid. Wash mouth out with water.

**Inhalation:**

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:**

**\*\*\*\* SECTION 5 - FIRE FIGHTING MEASURES \*\*\*\***

**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:**

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

**\*\*\*\* SECTION 6 - ACCIDENTAL RELEASE MEASURES \*\*\*\***

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Vacuum or sweep up material and place into a suitable disposal container.

**\*\*\*\* SECTION 7 - HANDLING and STORAGE \*\*\*\***

**Handling:**

Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Avoid contact with skin and eyes.

**Storage:**

Store in a cool, dry place. Store in a tightly closed container.

**\*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\***

**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Personal Protective Equipment**

**Eyes:**

Wear chemical goggles.

**Skin:**

Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved

respirator when necessary.

\*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

Physical State: Solid  
Color: white to light yellow  
Odor: Not available.  
pH: Not available.  
Vapor Pressure: 0.06mbar @20 deg C  
Viscosity: Not available.  
Boiling Point: 232 deg C @760mmHg  
Freezing/Melting Point: 43 - 46 deg C  
Autoignition Temperature: Not available.  
Flash Point: 122 deg C ( 251.60 deg F)  
Explosion Limits, lower: Not available.  
Explosion Limits, upper: Not available.  
Decomposition Temperature:  
Solubility in water: Insoluble.  
Specific Gravity/Density:  
Molecular Formula: C<sub>7</sub>H<sub>4</sub>ClN  
Molecular Weight: 137.57

\*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\*

Chemical Stability:  
Stable under normal temperatures and pressures.  
Conditions to Avoid:  
Incompatible materials.  
Incompatibilities with Other Materials:  
Strong oxidizing agents.  
Hazardous Decomposition Products:  
Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide,  
nitrogen.  
Hazardous Polymerization: Has not been reported.

\*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

RTECS#:  
CAS# 873-32-5: D12625000  
LD50/LC50:  
CAS# 873-32-5: Draize test, rabbit, eye: 100 mg/24H Moderate; Oral,  
mouse: LD50 = >300 mg/kg.  
Oral, rat: LD50 = 435 mg/kg  
Carcinogenicity:  
2-Chlorobenzonitrile -  
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.  
See actual entry in RTECS for complete information.

\*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

Ecotoxicity:  
Bacteria: EC50 = approx. 377 mg/l; ; OECD 209 = ISO DP 8192Fish:  
Zebrafish: LC50 = approx. 58,7 mg/l; 96 h; .

\*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Dispose of in a manner consistent with federal, state, and local regulations.

**\*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\***

**IATA**

**Shipping Name: NITRILES, SOLID, TOXIC, N.O.S.\***

**Hazard Class: 6.1**

**UN Number: 3276**

**Packing Group: III**

**IMO**

**Shipping Name: NITRILES, TOXIC, N.O.S.**

**Hazard Class: 6.1**

**UN Number: 3276**

**Packing Group: III**

**RID/ADR**

**Shipping Name: NITRILES, TOXIC, N.O.S.**

**Hazard Class: 6.1**

**UN Number: 3276**

**Packing group: III**

**\*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\***

**European/International Regulations**

**European Labeling in Accordance with EC Directives**

**Hazard Symbols: XN**

**Risk Phrases:**

**R 21/22 Harmful in contact with skin and if  
swallowed.**

**R 36 Irritating to eyes.**

**Safety Phrases:**

**S 23 Do not inhale gas/fumes/vapour/spray.**

**WGK (Water Danger/Protection)**

**CAS# 873-32-5: 2**

**United Kingdom Occupational Exposure Limits**

**United Kingdom Maximum Exposure Limits**

**Canada**

**CAS# 873-32-5 is listed on Canada's NDSL List.**

**CAS# 873-32-5 is not listed on Canada's Ingredient Disclosure List.**

**Exposure Limits**

**US FEDERAL**

**TSCA**

**CAS# 873-32-5 is listed on the TSCA inventory.**

**\*\*\*\* SECTION 16 - ADDITIONAL INFORMATION \*\*\*\***

**MSDS Creation Date: 7/16/1996 Revision #3 Date: 7/22/2003**

**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 way shall the company 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 the company has been advised of**

**the possibility of such damages.**

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