

# MATERIAL SAFETY DATA SHEET

# CONTACT : LEONID CHEMICALS

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3-Nitrobenzaldehyde, 99%

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: 3-Nitrobenzaldehyde, 99%

**Catalog Numbers:** 

N023

Synonyms:

Company Identification: LEONID CHEMICALS

62/A-2 2nd Stage, Industrial Suburb Yeshwanthpur, Bangalore -22, INDIA

Ph- +91-80-23378354

# SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS# 99-61-6

Chemical Name 3-Nitrobenzaldehyde

99% **EINECS#** 202-772-6 Haz Symbols XN N

Risk Phrases 22 36/37/38

# **SECTION 3 - HAZARDS IDENTIFICATION**

### **EMERGENCY OVERVIEW**

Harmful if swallowed. Irritating to eyes, respiratory system and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### **Potential Health Effects**

Eve:

Causes eye irritation.

Skin:

Causes skin irritation. May be harmful if absorbed through the skin.

Ingestion:

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

Causes respiratory tract irritation. May be harmful if inhaled.

Chronic:

Not available.



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# **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:

Treat symptomatically and supportively.

### **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:**

Use water spray, dry chemical, carbon dioxide, or chemical 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:

Remove contaminated clothing and wash before reuse. Avoid breathing dust, vapor, mist, or gas. 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: Powder Color: yellow - brown Odor: Not available. pH: Not available.

Vapor Pressure: <1mbar @50 deg C

Viscosity: Not available. Boiling Point: 285 - 290 deg C

Freezing/Melting Point: 56 - 59 deg C

Autoignition Temperature: 280 deg C (536.00 deg F)

Flash Point: Not available.

Explosion Limits, lower: Not available. Explosion Limits, upper: Not available.

Decomposition Temperature: Solubility in water: Negligible. Specific Gravity/Density: Molecular Formula: C7H5NO3 Molecular Weight: 151.12

# **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, strong bases.

**Hazardous Decomposition Products:** 

Nitrogen oxides, carbon monoxide, carbon dioxide. Hazardous Polymerization: Has not been reported.

### **SECTION 11 - TOXICOLOGICAL INFORMATION**



RTECS#:

CAS# 99-61-6: CU7250000

LD50/LC50:

Not available.

Oral, rat: LD50 = 1075 mg/kg

Carcinogenicity:

3-Nitrobenzaldehyde -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information.

# **SECTION 12 - ECOLOGICAL INFORMATION**

### **Ecotoxicity:**

Fish: Zebrafish: LC50: 5.0 mg/L; 96h; .Fish: Pimephals prome: LC50:

5.8 mg/L; 96h; .Log Pow: 1.66

Other

Not readily biodegradable.

# **SECTION 13 - DISPOSAL CONSIDERATIONS**

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

#### **SECTION 14 - TRANSPORT INFORMATION**

IATA

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class: 9 UN Number: 3077 Packing Group: III

IMO

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class: 9 UN Number: 3077 Packing Group: III

RID/ADR

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class: 9 UN Number: 3077 Packing group: III

### **SECTION 15 - REGULATORY INFORMATION**

# European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN N

Risk Phrases:

R 22 Harmful if swallowed.



R 36/37/38 Irritating to eyes, respiratory system and skin.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 29 Do not empty into drains.

S 37/39 Wear suitable gloves and eye/face protection.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 99-61-6: 2

**United Kingdom Occupational Exposure Limits** 

# **United Kingdom Maximum Exposure Limits**

#### Canada

CAS# 99-61-6 is listed on Canada's DSL List.

CAS# 99-61-6 is not listed on Canada's Ingredient Disclosure List.

**Exposure Limits** 

### **US FEDERAL**

**TSCA** 

CAS# 99-61-6 is listed on the TSCA inventory.

# **SECTION 16 - ADDITIONAL INFORMATION**

MSDS Creation Date: 7/16/1996 Revision #1 Date: 5/17/2004

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.

