

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** 2-Methyl-4-nitrobenzoic acid  
**Synonyms:**  
**Company Identification:** PI Chemicals Ltd.  
Room 512, Building 1  
88 Cailun Road, Zhangjiang Hi-Tech park,  
Pudong New Area, Shanghai 201203, China  
**Telephone Number:** 86-21-58953700  
**Fax Number:** 86-21-58953701

### Section 2 - Product Information

**Catalog Number:** PI-33354  
**CAS Number:** 1975-51-5  
**MDL number:** MFCD00210697  
**Purity:** 98%

### Section 3 - Physical and Chemical Properties

**Physical state:** Crystal powder  
**Color:** White or yellowish  
**Odor:** Not available  
**Molecular Formula:**  $C_8H_7NO_4$   
**Molecular Weight:** 181.15  
**Freezing/Melting Point:** 150-154 °C(lit.)  
**Boiling Point:** Not available  
**Flash Point:** Not available  
**Autoignition Temperature:** Not available  
**Refractive Index (nD20):** Not available  
**Density:** Not available  
**Decomposition Temperature:** Not available  
**Solubility:** Not available

### Section 4 - Hazards Identification

**Eye:** Causes eye irritation.  
**Skin:** Causes skin irritation. Harmful if absorbed through the skin.  
**Ingestion:** May be harmful if swallowed.  
**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

## **Section 5 - First Aid Measures**

- Eye:** 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 and soap for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.
- Ingestion:** Get medical aid immediately. 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.

## **Section 6 - Stability and Reactivity**

- Chemical Stability:** Stable under normal temperatures and pressures.
- Materials to avoid:** Strong oxidizing agents.
- Conditions to avoid:** Incompatible materials.
- Hazardous Decomposition Products:** Carbon monoxide, and carbon dioxide, Nitrogen oxides.
- Polymerization:** Will not occur.

## **Section 7 - Handling and Storage**

- Handling:** Avoid all direct contact with material. Wash thoroughly after handling. Have safety shower and eye wash available. Do not get in eyes, on skin, on clothing.
- Storage:** Store in cool place, Keep container tightly closed in a dry and well-ventilated place. Avoid sources of ignition.

## **Section 8 - Personal Protection**

- Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- 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. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## **Section 9 - Fire and Explosion Hazard Data**

- General Information:** As in any fire, wear a self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and protective clothing to prevent contact with skin and eyes.
- Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.

## **Section 10 - 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 11 - Toxicological Information***

**RTECS#:** CAS# 1975-51-5: None listed

**LD50/LC50:** RTECS: Not available.

**Carcinogenicity:** 2-Methyl-4-nitrobenzoic acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** The toxicological properties have not been fully investigated.

### ***Section 12 - Environmental information***

Not available

### ***Section 13 - Disposal Consideration***

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.

### ***Section 14 - Transport Information***

Not a dangerous chemical for transport.

### ***Section 15 - Regulatory Information***

#### ***European/International Regulations***

European Labeling in Accordance with EC Directives

**Hazard Symbols:** Xn

**Indication of Danger:** Not available

**Risk Statements:**

R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.

R36/37/38- Irritating to eyes, respiratory system and skin.

R42/43- May cause sensitization by inhalation and skin contact.

**Safety Statements:**

S37/39- Wear suitable gloves and eye/face protection

**WGK (Water Danger/Protection)**

CAS# 1975-51-5: Not available

Canada

**US Federal****TSCA**

*CAS# 1975-51-5 is not listed on the TSCA Inventory. It is for research and development use only.*

**Section 16 - Additional Information**

**MSDS Creation Date:** March 15, 2008

**Update:** May 6, 2008

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