

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: m-Nitroacetophenone
Synonyms: 3'-Nitroacetophenone
Company Identification: PI Chemicals Ltd.
Building B, 633 E Shan Road, Pudong New Area
Shanghai 200127, China
Telephone Number: 86-21-58953700
Fax Number: 86-21-58953701

Section 2 - Product Information

Catalog Number: PI-32568
CAS Number: 121-89-1
MDL Number: Not available
Purity: 98%

Section 3 - Physical and Chemical Properties

Physical state: Crystalline
Color: Slightly yellow to off-white
Molecular Formula: C₈H₇NO₃
Molecular Weight: 165.15
Freezing/Melting Point: 76 - 78 °C (169 - 172 °F) - lit.
Boiling Point: 202 °C (396 °F) - lit.
Flash Point: Undetermined
Autoignition Temperature: Undetermined
Refractive Index (n_{D20}): Undetermined
Density: Undetermined
Decomposition Temperature: Undetermined
Solubility: Undetermined

Section 4 - Hazards Identification

Eye: Causes eye irritation.
Skin: Causes skin irritation. Harmful if absorbed through the skin.
Ingestion: May cause irritation of the digestive tract. Toxic if swallowed.
Inhalation: May be harmful if inhaled. Cause 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 recommended storage conditions.
- Materials to avoid:* Strong oxidizing agents, Strong bases.
- Conditions to Avoid:* Has not been reported.
- Hazardous Decomposition Products:* Carbon oxides, nitrogen oxides (NO_x).
- Hazardous Polymerization:* Has not been reported.

Section 7 - Handling and Storage

- Handling:* Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
- Storage:* Keep container tightly closed in a dry and well-ventilated place.

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 alcohol-resistant 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# 121-89-1: AM9625000
LD50/LC50: LD50 Oral - rat - 3,250 mg/kg
Carcinogenicity: 4-Chloro-3-chlorosulfonylbenzoic acid -Not listed as a carcinogen by ACGIH, IARC, NTP, or OSHA.

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

IATA: Not dangerous goods.
IMO: Not dangerous goods.
RID/ADR: Not dangerous goods.

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Signal word: Warning

Hazard statement(s)

H303 May be harmful if swallowed.

H316 Causes mild skin irritation.

Safety Phrases:

S 22: Do not breathe dust

S 24/25: Avoid contact with skin; Avoid contact with eyes

WGK (Water Danger/Protection)

CAS# 121-89-1: 2

Canada

CAS# 121-89-1: Not available

US Federal

TSCA

CAS# 121-89-1 listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

MSDS Creation Date: July 29, 2008

Update: Mar 20, 2012

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