

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** 2-Bromo-3,4-difluoronitrobenzene  
**Synonyms:**  
**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-34476  
**CAS Number:** 350699-92-2  
**MDL Number:** Not available  
**Purity:** 97%

### Section 3 - Physical and Chemical Properties

**Physical state:** Liquid  
**Color:** Light yellow  
**Molecular Formula:**  $C_6H_2BrF_2NO_2$   
**Molecular Weight:** 237.99  
**Freezing/Melting Point:** Undetermined  
**Boiling Point:** Undetermined  
**Flash Point:** Undetermined  
**Autoignition Temperature:** Undetermined  
**Refractive Index (nD20):** Undetermined  
**Density:** Undetermined  
**Decomposition Temperature:** Undetermined  
**Solubility:** Undetermined

### Section 4 - Hazards Identification

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

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

<b>General advice:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>If inhaled:</b>	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
<b>In case of skin contact:</b>	Wash off with soap and plenty of water. Consult a physician.
<b>In case of eye contact:</b>	Flush eyes with water as a precaution.
<b>If swallowed:</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Materials to avoid:</b>	Strong oxidizing agents.
<b>Conditions to Avoid:</b>	Heat, flames and sparks.
<b>Hazardous Decomposition Products:</b>	Carbon oxides, hydrogen bromine, nitrogen oxides(Nox), hydrogen fluorin.
<b>Hazardous Polymerization:</b>	Has not been reported.

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

<b>Handling:</b>	Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
<b>Storage:</b>	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## **Section 8 - Personal Protection**

<b>Eyes:</b>	Wear appropriate protective eyeglasses.
<b>Skin:</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Respirators:</b>	Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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

<b>General Information:</b>	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.
<b>Extinguishing Media:</b>	For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water

may be ineffective. Cool all affected containers with flooding quantities of water.

## ***Section 10 - Accidental Release Measures***

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

**Spills/Leaks:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.

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

**RTECS#:** CAS# 350699-92-2: Not available.

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

**Carcinogenicity:** 2-Bromo-3,4-difluoronitrobenzene  
–Not listed as a carcinogen by ACGIH, IARC, NTP, or OSHA.

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

Not available

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

**Product:** This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging:** Dispose of as unused product.

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

**IATA:** Not available.

**IMO:** Not available.

**RID/ADR:** Not available.

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

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

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi

Indication of Danger: Irritant

Risk Phrases:

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

Safety Phrases:

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

**S 36: Wear suitable protective clothing.**

**WGK (Water Danger/Protection)**

**CAS# 350699-92-2: Not available**

### ***Section 16 - Additional Information***

**MSDS Creation Date:** 27 November, 2008

**Update:** 11 January, 2012

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