



## MATERIAL SAFETY DATA SHEET

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### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** ALPHA-BROMO-2,3,4,5,6-PENTAFLUOROTOLUENE, 97%

**Catalog Numbers:**

686

**Synonyms:**

Bromomethylpentafluorobenzene, Pentafluorobenzyl bromide

**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#	Chemical Name	%	EINECS#	Haz Symbols	Risk Phrases
1765-40-8	ALPHA-BROMO-2,3,4,5,6-PENTAFLUOROTOLUENE		217-182-4	XI	36/37/38

### SECTION 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Irritating to eyes, respiratory system and skin.

#### Potential Health Effects

##### Eye:

Contact with eyes may cause severe irritation, and possible eye burns. Lachrymator (substance which increases the flow of tears).

##### Skin:

May cause severe irritation and possible burns.

##### Ingestion:

Not available.

##### Inhalation:

May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. Causes chemical burns to the respiratory tract.

##### Chronic:

Not available.

### SECTION 4 - FIRST AID MEASURES



**Eyes:**

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

**Skin:**

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

**Ingestion:**

Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation:**

Remove from exposure and move to fresh air immediately.

**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. Combustible liquid.

**Extinguishing Media:**

Do NOT use water directly on fire. Use foam, dry chemical, or carbon dioxide.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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

**Spills/Leaks:**

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

**SECTION 7 - HANDLING and STORAGE****Handling:**

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

**Storage:**

Keep away from sources of ignition. 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 general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

**Eyes:**

Wear safety glasses and chemical goggles if splashing is possible.

**Skin:**

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to minimize contact with skin.

**Respirators:**

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Clear liquid
<b>Color:</b>	colorless - yellow
<b>Odor:</b>	Not available.
<b>pH:</b>	Not available.
<b>Vapor Pressure:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Boiling Point:</b>	174.0 - 175.0 deg C
<b>Freezing/Melting Point:</b>	Not available.
<b>Autoignition Temperature:</b>	Not available.
<b>Flash Point:</b>	82 deg C ( 179.60 deg F)
<b>Explosion Limits, lower:</b>	Not available.
<b>Explosion Limits, upper:</b>	Not available.
<b>Decomposition Temperature:</b>	
<b>Solubility in water:</b>	
<b>Specific Gravity/Density:</b>	1.7280g/cm <sup>3</sup>
<b>Molecular Formula:</b>	C <sub>7</sub> H <sub>2</sub> BrF <sub>5</sub>
<b>Molecular Weight:</b>	260.98

**SECTION 10 - STABILITY AND REACTIVITY****Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Incompatible materials, moisture.

**Incompatibilities with Other Materials:**

Oxidizing agents, bases, alcohols, amines, steel.

**Hazardous Decomposition Products:**

Carbon monoxide, carbon dioxide, hydrogen fluoride gas, hydrogen bromide.

**Hazardous Polymerization:** Has not been reported.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**RTECS#:**

CAS# 1765-40-8 unlisted.

**LD50/LC50:**

Not available.

**Carcinogenicity:**

ALPHA-BROMO-2,3,4,5,6-PENTAFLUOROTOLUENE -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

**SECTION 12 - ECOLOGICAL INFORMATION****SECTION 13 - DISPOSAL CONSIDERATIONS**

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

**SECTION 14 - TRANSPORT INFORMATION****IATA**

**Shipping Name:** CORROSIVE LIQUID, N.O.S.\*

**Hazard Class:** 8

**UN Number:** 1760

**Packing Group:** III

**IMO**

**Shipping Name:** CORROSIVE LIQUID, N.O.S.

**Hazard Class:** 8

**UN Number:** 1760

**Packing Group:** III

**RID/ADR**

**Shipping Name:** CORROSIVE LIQUID, N.O.S.

**Hazard Class:** 8

**UN Number:** 1760

**Packing group:** III

**SECTION 15 - REGULATORY INFORMATION****European/International Regulations**

European Labeling in Accordance with EC Directives

**Hazard Symbols:** XI

**Risk Phrases:**

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

**Safety Phrases:**

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

WGK (Water Danger/Protection)

**CAS# 1765-40-8:** No information available.

United Kingdom Occupational Exposure Limits

## United Kingdom Maximum Exposure Limits

### Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 1765-40-8 is not listed on Canada's Ingredient Disclosure List.

### Exposure Limits

#### US FEDERAL

##### TSCA

CAS# 1765-40-8 is not listed on the TSCA inventory.

It is for research and development use only.

## SECTION 16 - ADDITIONAL INFORMATION

MSDS Creation Date: 7/16/1996 Revision #0 Date: Original.

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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