



## MATERIAL SAFETY DATA SHEET

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### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** O-Benzotriazol-1-yl-tetramethyluronium hexafluorophosphate

**Catalog Numbers:**

29943-0000, 29943-0025

**Synonyms:**

NA

**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 #	:	94790-37-1
Chemical Name	:	O-Benzotriazol-1-yl-tetramethyluronium hexafluorophosphate
%	:	99%
EINECS#	:	unlisted
Hazard Symbols	:	XN F
Risk Phrases	:	11 20/21/22 36/37/38

### SECTION 3 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**

Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. Light sensitive. Moisture sensitive. Highly flammable. Harmful.

**Potential Health Effects**

**Eye**

Causes eye irritation.

**Skin:**

Causes skin irritation. Harmful if absorbed through the skin.

**Ingestion:**

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

**Inhalation:**

Harmful if inhaled. Causes respiratory tract irritation.



**Chronic:**  
Not available.

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#### SECTION 4 - FIRST AID MEASURES

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**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:**

NA

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#### SECTION 5 - FIRE FIGHTING MEASURES

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**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Flammable solid.

**Extinguishing Media:**

Use water spray, dry chemical, carbon dioxide, or chemical foam.

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#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

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**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. Remove all sources of ignition. Use a spark-proof tool.

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#### SECTION 7 - HANDLING AND STORAGE

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**Handling:**

Use spark-proof tools and explosion proof equipment. 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. Do not store in direct sunlight. Store in a tightly closed container. Store in a dry area. Keep under a nitrogen blanket. Refrigerator/flammables.

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**SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

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**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

**Personal Protective Equipment****Eyes:**

Wear chemical goggles.

**Skin:**

Wear appropriate protective gloves and clothing 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.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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Physical State	: Crystalline powder
Color	: white to off-white
Odor	: Not available.
PH	: Not available.
Vapor Pressure	: Not available.
Viscosity	: Not available.
Boiling Point	: Not available.
Freezing/Melting Point	: 200 deg C(decom)
Autoignition Temperature	: Not available.
Flash Point	: Not available.
Explosion Limits, lower	: Not available.
Explosion Limits, upper	: Not available.
Decomposition Temperature	NA
Solubility in water	:Soluble.
Specific Gravity/Density	NA
Molecular Formula	C11H16N5O.PF6
Molecular Weight	379.25

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**SECTION 10 - STABILITY AND REACTIVITY**

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**Chemical Stability:**

Stable. However, may decompose if heated.

**Conditions to Avoid:**

High temperatures, incompatible materials, ignition sources, excess heat, exposure to moist air or water, direct sunlight..

**Incompatibilities with Other Materials:**

Strong oxidizing agents.

**Hazardous Decomposition Products:**

Nitrogen oxides, phosphine, carbon monoxide, oxides of nitrogen, oxides of phosphorus, carbon dioxide, hydrogen fluoride gas.

**Hazardous Polymerization:**

Has not been reported.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

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**RTECS#:**

CAS# 94790-37-1 unlisted.

**LD50/LC50:**

Not available.

**Carcinogenicity:**

O-Benzotriazol-1-yl-tetramethyluronium hexafluorophosphate - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information.

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**SECTION 12 - ECOLOGICAL INFORMATION**

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NA

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

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

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**SECTION 14 - TRANSPORT INFORMATION**

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**IATA**

Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S.\*

Hazard Class: 4.1

UN Number: 1325

Packing Group: III

**IMO**

Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S.

Hazard Class: 4.1  
UN Number: 1325  
Packing Group: III

**RID/ADR**

Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S.  
Hazard Class: 4.1  
UN Number: 1325  
Packing group: III

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**SECTION 15 - REGULATORY INFORMATION**

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**European/International Regulations**

European Labeling in Accordance with EC Directives  
Hazard Symbols: XN F

**Risk Phrases:**

R 11 Highly flammable.  
R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
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 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S 37/39 Wear suitable gloves and eye/face protection.

**WGK (Water Danger/Protection)**

CAS# 94790-37-1: 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# 94790-37-1 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

**US FEDERAL**

TSCA



CAS# 94790-37-1 is not listed on the TSCA inventory.  
It is for research and development use only.

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## SECTION 16 - ADDITIONAL INFORMATION

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MSDS Creation Date: 7/16/1996    Revision #1 Date: 3/02/2004

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.

  
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