

# SAFETY DATA SHEET

## PHENYLMETHANESULFONYL FLUORIDE

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
**5480 Mainway**  
**Burlington, Ontario L7L 6A4**  
**1-800-234-1179**  
**Emergency Telephone No.: 1-905-466-3832**  
**Chemical Name:** Phenylmethanesulfonyl fluoride  
**Catalog Number:** PMS123/PMS444

### SECTION 2 HAZARDS IDENTIFICATION

#### GHS Classification:

Acute toxicity, oral (Category 3)  
Skin corrosion (Category 1)  
Serious eye damage (Category 1)

#### Pictogram:



**Signal word:** Danger

#### Hazard statement:

H301 toxic if swallowed  
H314 causes severe skin burns and eye damage

#### Precautionary statements:

P260-Do not breathe dust  
P264-wash skin thoroughly after handling.  
P270- Do not eat or drink or smoke when using this product.  
P280-Wear protective gloves/protective clothing/ eye protection/ face protection.

P301+P310+P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.  
P304+P340+P310- IF INHALED remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor  
P303+P361+P331- IF ON SKIN: take off immediately all contaminated clothing. Rinse skin with water.  
P305+P351+P338+P310- IF IN EYES: rinse cautiously with water for several minutes. remove contact lenses if present and easy to do. Continue rinsing. Immediately call POISON CENTER/doctor.  
P363-wash contaminated clothing  
P405-Store locked up  
P501- Dispose of contents/ container to an approve waste disposal plant.

**Target Organs:** None known.  
**Eyes:** Causes eye burns.  
**Skin:** Causes skin irritation. Causes burns.  
**Inhalation:** Causes irritation. Causes burns.  
**Ingestion:** Harmful if swallowed.

#### CHRONIC HEALTH HAZARDS:

Corrosive. Harmful If swallowed. Causes severe eye and skin Irritation. Cause burns.

### SECTION 3 COMPOSITION/ INGREDIENTS

CAS #	%
Phenylmethanesulfonyl fluoride	
329-98-6	99%

**Molecular Formula:** C<sub>7</sub>H<sub>7</sub>FO<sub>2</sub>S

**Molecular Weight:** 174.19

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with water for at least 15 minutes, occasionally lifting the upper and lower eyelids. GET MEDICAL ATTENTION

**Skin:** In case of contact, flush area immediately with soap and water while removing contaminated clothing and shoes. Wash clothing before reuse. Discard contaminated clothing in a manner which limits further exposure. GET MEDICAL ATTENTION.

**Inhalation:** GET MEDICAL ATTENTION IMMEDIATELY. Remove from exposure to fresh air. If not breathing give artificial respiration .If breathing is difficult, give oxygen.

**Ingestion:** If swallowed wash mouth out with water if person is conscious. GET MEDICAL ATTENTION. > Do Not induce vomiting.

### SECTION 5 FIRE FIGHTING MEASURES

**Flammable:** No

**Flash Point:** N/A

**Autoignition Temperature:** N/A

**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.

**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.

**Leak and Spill Procedures:** Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container

### SECTION 7 HANDLING AND STORAGE

**Handling:** Avoid contact. Do not get in eyes, on skin, or clothing. Wash

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thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.

**Storage Conditions:** Room temperature.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

2mg/m<sup>3</sup>, Canada

Use adequate ventilation. AVOID DUST GENERATION.

Wear appropriate protective equipment to prevent eye and skin exposure.

Wear appropriate respirator to prevent lung irritation.

**Personal Protection:** Lab coat, safety goggles, rubber gloves.

**Ventilation:** Local exhaust systems. Use fume hood

**Respiratory protection:** use OSHA/MSHA approved respirator.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Crystalline solid

**Appearance and Odor:** N/A

**Melting Point:** 92-94C

**Boiling Point:** N/A

**Specific Gravity:** N/A

**Vapor Density:** N/A

**Water Solubility:** yes

**pH:** approx. N/A

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable under normal temperatures and pressure

**Conditions to avoid:** dust generation

**Incompatibility:** Strong oxidizing agents and reducing agents

**Hazardous Decomposition Products:** carbon monoxide, carbon dioxide, hydrogen fluoride, Sulphur oxides.

**Hazardous Polymerization:** Will not occur

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

ORAL MOUSE: LD50=200 MG/KG

IPR RAT: LD50=150MG/KG

IPR MUS:LD50=215MG/KG

**Epidemiology:** No data available

**Teratogenicity:** No data available

**Reproductive Effects:** No data available

**Neurotoxicity:** No data available

**Mutagenicity:** No data available

**Carcinogenicity:** Not listed by ACGIH, IARC, NTP, or OSHA

### SECTION 12 ECOLOGICAL INFORMATION

#### Toxicity:

No information available.

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

#### DOT (US)

UN number: 2928 Class 6.1 (8) Packing group: II

Proper shipping name TOXIC SOLID CORROSIVE, N.O.S.

#### IMDG

UN number: 2928 Class 6.1 (8) Packing group: II

Proper shipping name TOXIC SOLID CORROSIVE, N.O.S.  
( $\alpha$ -Toluenesulphonyl fluoride)

#### IATA

UN number: 2928 Class 6.1 (8) Packing group: II

Proper shipping name TOXIC SOLID CORROSIVE, N.O.S.  
( $\alpha$ -Toluenesulphonyl fluoride)

### SECTION 15 REGULATORY INFORMATION

**US :** TSCA: listed

**European/International:** N/A

**Canada:** WHMIS: **E**, **D1A**

### SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Jan 1/2025

Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.