



## MATERIAL SAFETY DATA SHEET

Version Number:- 02

PRODUCT NAME: PHENYLMETHANESULFONYL FLUORIDE

CAS Number: 329-98-6

**1. IDENTIFICATION:**

**Product Code** : 92603

**Company Name** : ADVENT CHEMBIO PRIVATE LIMITED

**Address** : W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE,  
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**2. HAZARDS IDENTIFICATION:****Hazard classification****Health hazards**

**Acute toxicity** : Category 3 (Toxic if swallowed)

**Skin corrosion** : Sub-category 1B (Causes severe skin burns and eye damage)

**Labels elements****Hazard symbol****Signal word**

: Danger

**Hazard statement**: Toxic if swallowed.  
Causes severe skin burns and eye damage.**Precautionary statement****Prevention**: Obtain special instructions before use.  
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Keep container tightly closed.  
Use only non-sparking tools. Take precautionary measures against static discharge.**Response**: IF exposed or concerned: Get medical advice/ attention.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.**Storage**

: Store in a dry &amp; well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.



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<b>Disposal</b>	: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<b>Other hazards which do not result in GHS classification</b>	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Strong hydrogen fluoride-releaser.

**3. COMPOSITION/ INFORMATION ON INGREDIENTS:**

Ingredient	CAS Number	Percent	Hazardous
Phenylmethanesulfonyl Fluoride	329-98-6	NLT 99.0%	Yes

**4. FIRST AID MEASURES:**

<b>General information</b>	: Hydrofluoric (HF) acid burns require immediate and specialized first aid and medical treatment. Symptoms may be delayed up to 24 hours depending on the concentration of HF. After decontamination with water, further damage can occur due to penetration/absorption of the fluoride ion. Treatment should be directed toward binding the fluoride ion as well as the effects of exposure. Skin exposures can be treated with a 2.5% calcium gluconate gel repeated until burning ceases. More serious skin exposures may require subcutaneous calcium gluconate except for digital areas unless the physician is experienced in this technique, due to the potential for tissue injury from increased pressure. Absorption can readily occur through the subungual areas and should be considered when undergoing decontamination. Prevention of absorption of the fluoride ion in cases of ingestion can be obtained by giving milk, chewable calcium carbonate tablets or Milk of Magnesia to conscious victims. Conditions such as hypocalcemia, hypomagnesemia and cardiac arrhythmias should be monitored for, since they can occur after exposure. First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
<b>Ingestion</b>	: Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.
<b>Inhalation</b>	: Get medical attention if symptoms persist.
<b>Skin contact</b>	: Immediately flush with plenty of water for at least 15 minutes. Get medical attention.
<b>Eye contact</b>	: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.



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<b>If swallowed</b>	: Give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.
<b>Most important symptoms/effects, acute and delayed</b>	: The most important known symptoms and effects are described in the labelling.
<b>Indication of immediate medical attention and special treatment needed</b>	: No data available.

**5. FIRE FIGHTING MEASURES:****General information****Suitable (and unsuitable) extinguishing media**

<b>Suitable extinguishing media</b>	: Water, Foam, Carbon dioxide (CO <sub>2</sub> ), Dry powder
<b>Unsuitable extinguishing media</b>	: For this substance/mixture no limitations of extinguishing agents are given.
<b>Specific hazards arising from the chemical</b>	: Carbon, oxides Sulfur oxides, Hydrogen fluoride, Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.
<b>Special protective equipment and precautions for firefighters</b>	
<b>Special firefighting procedures</b>	: Fight fire from a protected location. Move containers from fire area if you can do so without risk.
<b>Special protective equipment for fire-fighters</b>	: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**6. ACCIDENTAL RELEASE MEASURES:**

<b>Personal precautions, protective equipment and emergency procedures</b>	: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
<b>Methods and material for containment and cleaning up</b>	: Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
<b>Notification Procedures</b>	: Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
<b>Environmental precautions</b>	: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.



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**7. HANDLING AND STORAGE:**

<b>Precautions for safe handling</b>	:	Do not handle until all safety precautions have been read and understood. Protect material from direct sunlight. Take precautionary measures against static discharges. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.
<b>Conditions for safe storage, including any incompatibilities</b>	:	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks.

**8. EXPOSURE CONTROLS PERSONAL PROTECTION:****Appropriate engineering**

**controls** : No data available

**Individual protection measures, such as personal protective equipment**

<b>General information</b>	:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.
<b>Eye/face protection</b>	:	Wear safety glasses with side shields (or goggles).
<b>Hand protection</b>	:	Chemical resistant gloves.
<b>Other</b>	:	Wear suitable protective clothing.
<b>Respiratory protection</b>	:	Required when dusts are generated. Recommended Filter type: Filter type P3
<b>Hygiene measures</b>	:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

<b>Appearance</b>	:	White crystalline powder.
<b>Odor</b>	:	No data available
<b>Solubility</b>	:	No data available
<b>Formula</b>	:	C <sub>7</sub> H <sub>7</sub> FO <sub>2</sub> S
<b>Molecular Weight</b>	:	174.19 g/mol
<b>Density</b>	:	0.792 g/cm <sup>3</sup> at 20 °C
<b>pH</b>	:	No data available
<b>% Volatiles by volume @ 21C (70F)</b>	:	No data available



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Boiling Point	: No data available
Melting Point	: 92.0 - 95.0°C
Flash Point	: No data available
Vapor Density (Air=1)	: No data available
Vapor Pressure (mm Hg)	: No data available
Evaporation Rate (BuAc=1)	: No data available

**10. STABILITY AND REACTIVITY:**

The following applies in general to flammable organic substances and mixtures: in	
Reactivity	: correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Chemical stability	: Material is stable under ambient conditions..
Possibility of hazardous reactions	: Violent reactions possible with: strong oxidising agents
Conditions to avoid	: No data available
Incompatible materials	: No data available
Hazardous decomposition products	: In the event of fire: see section 5

**11. TOXICOLOGICAL INFORMATION:**

## Information on toxicological effects

## Acute toxicity (list all possible routes of exposure)

Oral Product	: LD 50 Oral - Mouse - 200 mg/kg
Dermal Product	: No data available.
Inhalation Product	: No data available.
Repeated dose toxicity Product	: No data available.
Skin corrosion/irritation Product	: No data available.
Serious eye damage/eye irritation Product	: Irritating to eyes.
Respiratory or skin sensitization Product	: No data available.
Carcinogenicity Product	: No data available.
Germ cell mutagenicity	: No data available.
Reproductive toxicity Product	: No data available.



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Specific target organ  
toxicity - single exposure : No data available.  
Product  
Specific target organ  
toxicity - repeated : No data available.  
exposure Product  
Aspiration hazard Product : No data available.  
Other effects : No data available.

**12. ECOLOGICAL INFORMATION:****Ecotoxicity****Acute hazards to the aquatic environment**

Fish Product : No data available.

Aquatic invertebrates  
Product : No data available.

**Chronic hazards to the aquatic environment**

Fish Product : No data available.

Aquatic invertebrates  
Product : No data available.

Toxicity to Aquatic Plants  
Product: : No data available.

**Persistence and degradability**

Biodegradation Product : No data available.

BOD/COD ratio Product : No data available.

**Bioaccumulative potential**

Bioconcentration factor  
(BCF) Product : No data available.

Partition coefficient n-  
octanol / water (log Kow)  
Product : No data available.

Mobility in soil : No data available.

Other adverse effects : No data available.

**13. DISPOSAL CONSIDERATION:**

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.

Contaminated packaging : Since emptied containers retain product residue, follow label warnings even after container is emptied.



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## 14. TRANSPORT INFORMATION:

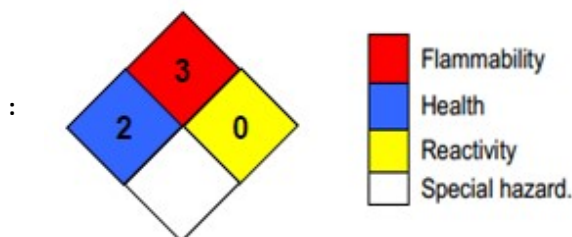
	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Environmental hazards
ADR/RID	UN 2923	Phenylmethanesulfonyl Fluoride	8 (6.1)	II	No
IMDG	UN 2923	Phenylmethanesulfonyl Fluoride	8 (6.1)	II	No
IATA	UN 2923	Phenylmethanesulfonyl Fluoride	8 (6.1)	II	No

## 15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.  
Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

## 16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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