# C BIOMATIK Safety Data Sheet Version 3.10 Revised: 2016-05-02

# **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier Product Name	Phenylmethylsufonyl Fluoride (PMSF)
<u>Other means of identification</u> Product Code(s) UN/ID no. Synonyms	A3620 2928 No information available
Product Use	For Laboratory Research Use Only.
Supplier/Manufacturer Biomatik Corporation 9-140 McGovern Dr. Cambridge, Ontario N3H 4R7 Canada	
Telephone Number E-mail Address	1-519-489-7195 info@biomatik.com
Emergency Telephone Number	Chemtrec 1-800-424-9300
	2. HAZARDS IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Toxicity - Oral	Category 3
Skin Corrosion/Irritation	Category 1 Sub-category B
Serious Eye Damage/Eye Irritation	Category 1

#### Label elements

	Emergency Overview	
Danger		
<b>Hazard statements</b> H301 - Toxic if swallowed H314 - Causes severe skin burns and eye damage		
Appearance White	Physical State Powder	Odor No information available

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dusts or mists Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

Specific treatment (see .? on this label) Immediately call a POISON CENTER or doctor Specific treatment (see .? on this label) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER or doctor IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth Do NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up

#### Precautionary Statements - Disposal Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC) Not regulated Other Information

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Benzenemethanesulfonyl	329-98-6	206-350-2	95-100	Not applicable
fluoride				

#### **4. FIRST AID MEASURES**

**First Aid Measures** 

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person.
Most important symptoms and effect	cts, both acute and delayed
Most Important Symptoms/Effects	No information available.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician	tes to Physician Treat symptomatically.				
	5. FIRE-FIGHTING MEASURES				
Suitable Extinguishing Media Dry chemical, CO <sub>2</sub> , water spray or reg	ular foam. Do Not use water.				
Unsuitable Extinguishing Media	a No information available.				
Specific Hazards Arising from the C No information available.	<u>hemical</u>				
Hazardous Combustion Products	Carbon oxides. Sulfur oxides. Hydrogen fluoride.				
<u>Explosion Data</u> Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t None. None.				
Protective Equipment and Precaution As in any fire, wear self-contained breat protective gear.	ons for Firefighters athing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full				
	6. ACCIDENTAL RELEASE MEASURES				
Personal precautions, protective eq	uipment and emergency procedures				
Personal protection	Ensure adequate ventilation, especially in confined areas.				
Environmental Precautions					
Environmental Precautions	See Section 12 for additional Ecological information.				
Methods and material for containme	ent and cleaning up				
Methods for Containment	Prevent further leakage or spillage if safe to do so.				
Methods for Cleaning Up	Pick up and transfer to properly labeled containers.				
	7. HANDLING AND STORAGE				
Precautions for Safe Handling					
Handling	Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not breathe vapors/dust. Hygroscopic.				
Conditions for safe storage, includi	ng any incompatibilities				
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.				
Incompatible Products	Strong oxidizing agents. Strong bases.				
8. EX	POSURE CONTROLS/PERSONAL PROTECTION				

#### **Control parameters**

# Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. Chemical Name ACGIH TLV OSHA PEL NIOSH IDLH Benzenemethanesulfonyl fluoride

#### Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/Face Protection	Safety glasses with side-shields.
Skin and Body Protection	Wear protective gloves/clothing.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical State Appearance Color	Powder White No information available	Odor Odor Threshold	No information available No information available
Property pH Melting point/freezing point Boiling Point/Range Flash Point (High in °C) Evaporation Rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Lower flammability limit: Vapor pressure Vapor Density Specific Gravity Water Solubility Solubility in other solvents Partition coefficient Autoignition Temperature Decomposition Temperature Kinematic viscosity Dynamic viscosity	ValuesNo information availableNo information available	<u>Remarks • Method</u>	
Explosive Properties Oxidizing Properties	No information available No information available No information available		
Other Information Softening Point Molecular Weight VOC Content Density Bulk Density	No information available No information available No information available No information available No information available		

# 10. STABILITY AND REACTIVITY

Crustacea

Reactivity No data available

#### **Chemical Stability**

Stable under recommended storage conditions. **Possibility of Hazardous Reactions** None under normal processing. **Conditions to Avoid** Protect from moisture. **Incompatible Materials** Strong oxidizing agents. Strong bases. Hazardous Decomposition Products Carbon oxides. Sulfur oxides. Hydrogen fluoride.

#### **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information	
Inhalation	There is no data available for this product.
Eye Contact	May cause irreversible damage to eyes.
Skin Contact	Causes burns.
Ingestion	Toxic if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzenemethanesulfonylfluoride	-	-	-

#### Information on toxicological effects

Symptoms

No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Mutagenic Effects Carcinogenicity	No informatic No informatic No informatic	n available.		
Chemical Name	ACGIH	IARC	NTP	OSHA
Benzenemethanesulfonyl fluoride	-	-	-	-
Reproductive Toxicity STOT - single exposure STOT - repeated exposure Target Organ Effects Aspiration hazard	No informatic No informatic Nerves.	No information available. No information available. No information available. Nerves. No information available.		

#### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

#### **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment **Toxicity to Fish** 

**Chemical Name** Algae/aquatic plants

Benzenemethanesulfonyl fluoride	-	-	-

#### Persistence and Degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Chemical Name	Partition coefficient
Benzenemethanesulfonyl fluoride	-

#### **Other Adverse Effects**

No information available

#### **13. DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Waste Disposal Method

Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging** 

Do not re-use empty containers.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Benzenemethanesulfonyl fluoride	-	-	-	-

Chemical Name	California Hazardous Waste Status	
<b>Benzenemethanesulfonyl fluoride</b>	-	

# 14. TRANSPORT INFORMATION

DOT	
UN/ID no.	2928
Proper shipping name	TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S. (CONTAINING PHENYLMETHYL SULFONYL FLUORIDE)
Hazard Class	6.1
Subsidiary class	8
Packing Group	II
IATA_	
UN/ID no.	2928
Proper shipping name	TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S. (CONTAINING PHENYLMETHYL SULFONYL FLUORIDE)
Hazard Class	6.1
Subsidiary hazard class	8
Packing Group	II

	15. REGULATORY INFORMATION	
International Inventories		
TSCA	Complies	
DSL/NDSL	Complies	
EINECS/ELINCS	Complies	
ENCS	Does not Comply	

15000	
IECSC	Complies
KECL	Does not Comply
PICCS	Does not Comply
AICS	Does not Comply

#### Legend

 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

 EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

 ENCS - Japan Existing and New Chemical Substances

 IECSC - China Inventory of Existing Chemical Substances

 KECL - Korean Existing and Evaluated Chemical Substances

 PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	SARA 313 - Threshold Values %
Benzenemethanesulfonyl fluoride	-

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Benzenemethanesulfonyl fluoride	-	-	-	-

#### <u>CERCLA</u>

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Benzenemethanesulfonyl fluoride	-	-	-

# U.S. State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65			
Benzenemethanesulfonyl fluoride	-			
IIS State Bight to Know Pogulations				

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Benzenemethanesulfonyl fluoride	-	-	-

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not regulated

#### **16. OTHER INFORMATION**

#### Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**