

Manufacturers & Exporters of Pharmaceutical Chemicals

#### **SAFETY DATA SHEET**

#### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product identifiers		
i	Product Name	:	Sodium Selenite
ii	Chemical Formula	:	Na <sub>2</sub> O <sub>3</sub> Se
iii	CAS No.	:	10102-18-8
iv	EC No.	:	233-267-9
٧	Hazardous	:	Yes
vi	Appearance	:	White to beige solid powder
vii	Content	:	Minimum 99%
1.2	Relevant identified	use	es of the substance
i	Identified uses	:	Anti-inflammatory agent, cancer medicine synthesis
1.3	Details of Manufact	ture	r
i	Company	:	Samrat Pharmachem Limited
			DI-+ NI- A0/0445
			Plot No. A2/3445,
::	Address		GIDC, Phase 4,
ii	Address	:	•
ii	Address	:	GIDC, Phase 4,
ii	Address Phone	:	GIDC, Phase 4, Ankleshwar – 393002,
	7.55.555	:	GIDC, Phase 4, Ankleshwar – 393002, Gujarat, India.
iii	Phone	:	GIDC, Phase 4, Ankleshwar – 393002, Gujarat, India. +91-7045456789 / 7046456789
iii	Phone Email	:	GIDC, Phase 4, Ankleshwar – 393002, Gujarat, India. +91-7045456789 / 7046456789 contact@samratpharmachem.in
iii	Phone Email	: : :	GIDC, Phase 4, Ankleshwar – 393002, Gujarat, India. +91-7045456789 / 7046456789 contact@samratpharmachem.in





#### 2. HAZARD IDENTIFICATION

2.1	Class	ification of substance		
i	H300	Acute toxicity, oral	:	Fatal if swallowed (Category 2)
ii	H330	Acute toxicity, inhalation	:	Fatal if inhaled. (Category 3)
iii	H315	Skin irritation	:	Irritates the exposed skins(Category 2)
iv	H319	Eye irritation	:	Causes serious eye irritation (Category 2)
V	H411	Chronic aquatic hazard	:	Shows long term effect on aquatic living beings (Category 2)



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2.2	GHS Label element	s, i	ncluding precautionary statements
i	Pictogram	:	
ii	Signal word	:	Danger
	T.,		
iii	Hazard Statement(s)		
	H300 + H330	:	Fatal if swallowed or if inhaled.
	H315	:	Causes skin irritation.
	H317	:	May cause an allergic skin reaction.
iv	Precautionary Stateme	nt(s	5)
	P273	:	Avoid release to the environment.
	P280	:	Wear protective gloves/ eye protection/ face protection
	P304 + P340 + P311	:	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
	P314	:	Get medical advice/ attention if you feel unwell.
	Supplemental Hazard statement	:	None



2.3	Hazards not otherwise classified (HNOC) or not covered by GHS	
i	EUH031	: Contact with acids liberates toxic gas.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1	Substances		
i	Molecular Weight	:	172.94 g/mol
ii	Constituent Elements	:	Na <sub>2</sub> O <sub>3</sub> Se



#### 4. FIRST AID MEASURES

4.1	Symptoms
i	Most important symptoms and effects, both acute and delayed
	High exposure can cause headache, nausea, vomiting, coated tongue, metallic taste, and a garlic odour of the breath. Sodium Selenite may damage the testes (male reproductive glands). Repeated exposures can cause pallor, dizziness, nervousness, and mood changes. Sodium Selenite may damage the liver and kidneys
ii	Indication of any immediate medical attention & special treatment needed
	If seeking medical attention, provide SDS document to physician.





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4.2	Description of	irst aid measures
i	Inhalation	If inhaled, move victim to fresh air. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
ii	Ingestion	Induce vomiting only if medical emergency is too far and the person is awake directed to do so by medical personnel. Rinse mouth out with water. If you feel still feel unwell, immediately make victim drink water (two glasses at least). Administer activated charcoal (20 - 40 g in a 10% slurry) Consult a doctor.
iii	Skin contact	Take off immediately all contaminated clothing. Wash skin with plenty of water. Cover the irritated skin with an emollient If skin irritation occurs: Get medical advice/attention.
iv	Eye contact	Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

#### 5. FIRE FIGHTING MEASURES

5.1	Extinguishing media	
İ	Suitable : extinguishing agents	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
	Unsuitable : extinguishing agents	For this substance/mixture no limitations of extinguishing agents are given.
ii	Special hazards : arising from the substance or mixture	Sodium oxides Selenium/selenium oxides Not combustible. Ambient fire may liberate hazardous vapours.
iii	Special remarks on : Explosion Hazard	No data available
iv	Advice for firefighters :	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
V	Additional : information	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.





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#### 6. ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment & emergency
	procedures
	Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation.
	Evacuate the danger area, observe emergency procedures, and consult an
	expert.
6.2	Environmental precautions
	Do not let product enter drains. Use non-sparking tools and equipment. Pick up
	spill for recovery or disposal and place in a closed container.
6.3	Methods and material for containment and cleaning up
	Cover drains. Collect, bind, and pump off spills. Observe possible material
	restrictions. Take up dry. Dispose of properly. Clean up affected area. Avoid
	generation of dusts.



#### 7. HANDLING AND STORAGE

7.1	Precautions for safe handling
	Avoid raising dust. Use earthed equipment. Keep away from naked flames/heat.
	Carry operations in the open/under local exhaust/ventilation or with respiratory
	protection. Comply with the legal requirements. Remove contaminated clothing
	immediately. Clean contaminated clothing. Keep the substance free from
	contamination. Thoroughly clean/dry the installation before use. Do not discharge
	the waste into the drain. Keep container tightly closed.
	Uvaiene measures.
	Hygiene measures:
	Do not eat, drink or smoke when using this product. Wash contaminated clothing
	before reuse. Wash hands and other exposed areas with mild soap and water
	before eating, drinking or smoking and when leaving work.
7.2	Conditions for safe storage, including any incompatibilities
	Storage conditions:
	Tightly closed. Do not store near combustible materials. Recommended storage
	temperature see product label.
	Storage class:
	Storage class (TRGS 510): 6.1B: Non-combustible, acute toxic Cat. 1 and 2 / very
	toxic hazardous material.
7.3	Specific end use(s)
	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated



#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	Control Parameters
i	Ingredients with workplace control parameters
	No data available
8.2	Exposure Controls
i	Appropriate engineering controls
	Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.





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ii	Personal protective equipment
(a)	Eye / face protection
	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU) safety glasses.
(b)	Skin Protection
	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
(c)	Body Protection
	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
(d)	Respiratory protection
	Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P2  The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
(e)	Control of environmental exposure
	Do not let product enter drains.

#### 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	ppearance Form: Powder Colour: White to beige		Non explosive
Odour	Odourless	Vapour pressure	No data available
Odour threshold	Odour threshold No data available		No data available
pH-value	2-6	Relative density	No data available
Melting/Freezing point	>350°C		Water: 898 g/l at 25°C (soluble)
Boiling point	Decomposes	Partition coefficient (n-octanol/water)	No data available
Flash Point	Not determined	Auto/Self-ignition temperature	>400°C
Evaporation rate	No data available	Decomposition temperature	No data available
Flammability	Not flammable	Viscosity	No data available
Density	No data available	Poison Class	No data available





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#### 10. STABILITY & REACTIVITY

i	Reactivity	:	contact with acid liberates toxic gases	
ii	Chemical stability	:	The product is chemically stable under normal	
			conditions.	
iii	Possible hazardous	:	There is a risk of explosion when the material comes	
	reactions		in contact with acids.	
iv	Conditions to avoid	:	Incompatible products. Exposure to moist air or water	
٧	Incompatible material	:	No data available	
vi	Hazardous	:	Sodium oxides, Selenium oxides	
	decomposition products			



#### 11. TOXICOLOGICAL INFORMATION

	TI. TOXIGGEOGICAE IN CRIMATION						
11.1	Information on toxicological effects						
i	Oral	LD50 Rat	7 mg/kg				
ii	Inhalation	LD50 Rat	0.052-0.51 mg/L dust/mist				
11.2	Corrosion Irritation	on					
i	Serious eye damage	e / irritation	No data available				
ii	Respiratory or skin i	rritation	Damages human keratinocytes				
			May cause skin allergic reaction				
iii	Germ cell mutagenicity		No data available				
iv	Carcinogenicity		There are no known carcinogenic				
			chemicals in this product				
٧	Reproductive Toxicity		No data available				
11.3	Additional information						
	May cause damage to organs from repeated exposure.						



#### 12. ECOLOGICAL INFORMATION

12.1	Toxicity		
i	Particulars	Туре	Value
	Fish LC50	Pimephales promelas (fathead minnow)	1.7mg/L -96hrs
	Crustacea LC 50	Daphnia magna (Water flea)	1.1 mg/L – 48hrs
ii	Ecology – general	No data available	
iii	Ecology – air	No data available	
iv	Hazardous to aquatic environment – short term (acute)	Very toxic to aquatic organisms.	
V	Hazardous to aquatic environment – long term (chronic)	May cause long-term adverse effects in the aquatic environment. Based on available literature and data from closely analogous substances using structure/activity relationships.	





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12.2	Persistence and degradability			
i	Persistence and degradability	The methods for determining		
		biodegradability are not applicable		
		to inorganic substances		
ii	Biodegradation	Not relevant for inorganics.		
12.3	Bio accumulative potential			
i	BCF – Other aquatic organisms	1.850		
ii	Partition coefficient n-octanol/water (Log Kow)	No data available		
iii	Bioaccumulative potential	May bioaccumulate.		
12.4	Mobility in Soil			
	Spillage unlikely to penetrate soil Is not likely mobile in the environment due its low			
	water solubility.			
12.5	Results of PBT and vPvB assessment			
	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.			
12.6	Other adverse effects			
	Not known			

#### 13. DISPOSAL CONSIDERATIONS

13.1	Waste disposal recommendation's
i	General instructions
	Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.
ii	Product / Packaging disposal recommendations
	Avoid release to the environment



#### 14. TRANSPORT INFORMATION

14.1	In accordance with ADR / IMDG / IATA / ADN / RID					
	ADR	IMDG	IATA	ADN	RID	
i	UN Number					
	UN 2630 UN 2630 UN 2630 UN 2630 UN 2630					
ii	UN proper shipping name					
	SELENITES   SELENITES   SELENITES   SELENITES				SELENITES	
	(Sodium	(Sodium	(Sodium	(Sodium	(Sodium	
	selenite)	selenite)	selenite)	selenite)	selenite)	
iii	Transport hazard class					
	6.1	6.1	6.1	6.1	6.1	





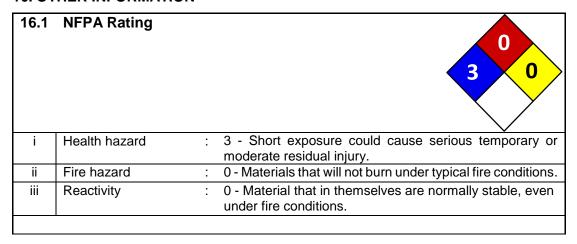
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iv	Hazardous class symbols				
V	Packing group				
	I	I	I	I	I
vi	Environment haz	ards: Dangerous t	for the environm	nent	
	Yes	Yes	No	Yes	Yes
vii	Marine Pollutant	1			
	NA	Yes	NA	NA	NA
		1			
14.2	Transport in bulk according to annexure II of Marpol and the IBC Code				
i	IBC Code		Not applicable	Э	

#### 15. REGULATORY INFORMATION

15.1	Regulations
i	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.
ii	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
iii	<b>Toxic Substances Control Act (TSCA):</b> Sodium Selenite (CAS No. 10102-18-8): Listed for TSCA, Flag None. TSCA: Toxic Substances Control Act. Requirement to submit a pre-manufacturing notice before commencing to manufacture or import a new substance.

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





### **Manufacturers & Exporters of Pharmaceutical Chemicals**

16.2	HMIS Rating			Health
				Fire
				Reactivity
				Personal Protection
i	Health	:	No data available	
ii	Flammability	:	No data available	
iii	Physical	:	No data available	
iv	Personal Protection	:	No data available	
16.3	Further Information	n		
	but may not be comple	ete 8	lerived from the available literature & b & conclusive. The company shall not be andling or usage of the product. The	e responsible for any

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