



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers	
i	Product Name : Trimethylsulphoxonium Iodide
ii	Chemical Formula : $(\text{CH}_3)_3\text{S}(\text{I})\text{O}$
iii	CAS No. : 1774-47-6
iv	EC No. : 217-204-2
v	HSN Code : 28276090
vi	Hazardous : No
vii	Content : Minimum 99.0%
viii	Appearance : Pale Yellow Crystalline Powder
1.2 Relevant identified uses of the substance	
i	Identified uses : Laboratory chemicals, Manufacture of substances
1.3 Details of Manufacturer	
i	Company : Samrat Pharmachem Limited
ii	Address : Plot No. A2/3444-3445, GIDC, Phase 4, Ankleshwar – 393002, Gujarat, India.
iii	Phone : +91-7045456789 / 7046456789
iv	Email : contact@samratpharmachem.in
v	Webpage : www.samratpharmachem.com
1.4 Emergency Number	
	Emergency Phone : +91-7045456789 / 7046456789



2. HAZARD IDENTIFICATION

2.1 Classification of substance	
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)	
2.2 GHS Label elements, including precautionary statements	
i	Pictogram : NA
ii	Signal word : NA
iii	Hazard Statement(s) : NA
iv	Precautionary Statement(s) NA
2.3 Hazards not otherwise classified (HNOC) or not covered by GHS	
Toxic to aquatic life forms.	





3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances	
Molecular Weight	: 220.07 g/mol
Constituent Elements	: (CH ₃) ₃ S(I)O

4. FIRST AID MEASURES

4.1 Symptoms	
i	Most important symptoms and effects, both acute and delayed
	Excessive saliva production, head cold, sneezing, conjunctivitis, headache, fever, laryngitis, inflammation of the bronchi and mouth cavity, inflamed parotid gland
ii	Indication of any immediate medical attention & special treatment needed
	If seeking medical attention, provide SDS document to physician.
4.2 Description of first 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 : Rinse mouth out with water. If you still feel unwell, immediately make victim drink water. 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	
i	Suitable extinguishing agents : Water spray, carbon dioxide (CO ₂), dry chemical, alcohol-resistant foam.
	Unsuitable extinguishing agents : No data available
ii	Special hazards arising from the substance or mixture : Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Carbon oxides, Sulphur oxides, Hydrogen iodide
iii	Special remarks on Explosion Hazard : Carbon monoxide (CO). Carbon dioxide (CO ₂). Sulfur oxides. Hydrogen iodide





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.

6. ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment & emergency procedures
	Wear protective equipment. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation. Do not touch or walk on spilled product.
6.2	Environmental precautions
	No data available
6.3	Methods and material for containment and cleaning up
	Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. Clean contaminated surfaces with an excess of water.



7. HANDLING AND STORAGE

7.1	Precautions for safe handling
	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.
7.2	Conditions for safe storage, including any incompatibilities
	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from direct sunlight. Incompatible Materials. Strong oxidizing agents. Strong bases.
7.3	Specific end use(s)
	Use in laboratories





8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters	
i	Ingredients with workplace control parameters
	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
8.2 Exposure Controls	
i	<i>Appropriate engineering controls</i>
	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
<i>Personal protective equipment</i>	
ii	<i>Personal protective equipment</i>
(a)	Eye / face protection
	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
(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
	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly.
(e)	Control of environmental exposure
	No data found





9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Form: Powder solid Colour: Off- White	Flammability	Product is not flammable
Odour	Odourless	Vapour pressure	Not determined
Odour threshold	Not determined	Relative vapour density at 20°C	Not determined
pH-value	Not Applicable	Relative density	Not determined
Melting/Freezing point	175 °C / 347 °F	Solubilities	Soluble in water
Boiling point	Not determined	Partition coefficient (n-octanol/water)	Not determined
Flash Point	Not determined	Auto/Self-ignition temperature	200 °C / 392 °F
Evaporation rate	Not determined	Decomposition temperature	Not determined
Flammability	Not determined	Viscosity	Not determined
Density	Not determined	Poison Class	Not determined



10. STABILITY & REACTIVITY

(a)	Reactivity	: Non-reactive under normal conditions.
(b)	Chemical stability	: Stable under normal temperatures and pressures.
(c)	Possible hazardous reactions	: None under normal processing. Can react violently on contact with incompatibles
(d)	Conditions to avoid	: Incompatible materials, Light
(e)	Incompatible material	: strong oxidisers, strong bases
(f)	Hazardous decomposition products	: Carbon monoxide (CO), Carbon dioxide (CO ₂), Sulfur oxides, Hydrogen iodide



11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
	No data available
11.2 Corrosion Irritation	
Serious eye damage / irritation	Causes eye irritation
Respiratory or skin irritation	Did not cause sensation.
Germ cell mutagenicity	Mutagenicity tests are negative
Carcinogenicity	No data found
Reproductive Toxicity	Not classified





12. ECOLOGICAL INFORMATION

12.1 Toxicity		
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.		
12.2 Persistence and degradability		
(a)	Persistence and degradability	Biodegradability
(b)	Biodegradation	No data available
12.3 Bio accumulative potential		
(a)	BCF – Other aquatic organisms	No data available
(b)	Partition coefficient n-octanol/water (Log Pow)	No data available
(c)	Bioaccumulative potential	No data available
12.4 Mobility in Soil		
(a)	Partition coefficient n-octanol/water (Log Koc)	No data available
12.5 Results of PBT and vPvB assessment		
No data available		
12.6 Other adverse effects		
Not known		



13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal recommendation's	
i	General instructions
	Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not let this chemical enter the environment. Do not empty into drains. Waste must be disposed of in accordance with federal, state and local environmental control regulations.





14. TRANSPORT INFORMATION

14.1 In accordance with ADR / IMDG / IATA / ADN / RID					
	ADR	IMDG	IATA	ADN	RID
i	UN Number				
	UN 3077	UN 3077	UN 3077	UN 3077	UN 3077
ii	UN proper shipping name				
	Tri Methyl Sulphoxonium Iodide	Tri Methyl Sulphoxonium Iodide	Tri Methyl Sulphoxonium Iodide	Tri Methyl Sulphoxonium Iodide	Tri Methyl Sulphoxonium Iodide
iii	Transport hazard class				
	9	9	9	9	9
iv	Hazardous class symbols				
	NA				
v	Packing group				
	III	III	III	III	III
vi	Environment hazards: Dangerous for the environment				
	Yes	Yes	Yes	Yes	Yes
vii	Marine Pollutant				
	Not applicable	Yes	Not applicable	Not applicable	Not applicable



15. REGULATORY INFORMATION

15.1 EU - Regulations	
i	No REACH Annexure XVII restrictions
ii	Trimethylsulfoxonium iodide is not on the REACH Candidate List.
iii	Trimethylsulfoxonium iodide is not on the REACH Annex XIV List.

16. OTHER INFORMATION

16.1 NFPA Rating	
i	Health hazard : 1- Exposure would cause irritation with only minor residual injury
ii	Fire hazard : 1 - Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur.
iii	Reactivity : 0 - Normally stable, even under fire exposure conditions, and is not reactive with water.



Samrat Pharmachem Limited

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
vi	Personal Protection	: No data available
16.3 Further Information		
	The above information is derived from the available literature & believed to be correct but may not be complete & conclusive. The company shall not be responsible for any damage resulting from handling or usage of the product. The information shall be used only as a guide.	

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