

Manufacturers & Exporters of Pharmaceutical Chemicals

### **SAFETY DATA SHEET**

#### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product identifiers		
i	Product Name	:	Ethyl lodide
ii	Chemical Formula	:	C <sub>2</sub> H <sub>5</sub> I
iii	CAS No.	:	75-03-6
iv	EC No.	:	200-833-1
٧	HSN Code	:	28276090
vi	Hazardous	:	Yes
vii	Content	:	Minimum 99.0%
viii	Appearance	:	Clear colorless heavy liquid
1.2	Relevant identified	use	s of the substance
i	Identified uses	:	Laboratory chemicals, manufacture of substances
1.3	Details of Manufact	ure	r
i	Company	:	Samrat Pharmachem Limited
			Plot No. A2/3444-3445,
ii	Address		GIDC, Phase 4,
"	Addiess	•	Ankleshwar – 393002,
			Gujarat, India.
iii	Phone	•	Gujarat, India. +91-7045456789 / 7046456789
iii iv	Phone Email	:	•
		:	+91-7045456789 / 7046456789
iv	Email	:	+91-7045456789 / 7046456789 <u>contact@samratpharmachem.in</u>
iv	Email	:	+91-7045456789 / 7046456789 <u>contact@samratpharmachem.in</u>
iv v	Email Webpage	:	+91-7045456789 / 7046456789 <u>contact@samratpharmachem.in</u>





#### 2. HAZARD IDENTIFICATION

2.1	Class	ification of substance		
i	H302	Acute Oral Toxicity	:	Harmful if swallowed (Category 4)
ii	H315	Skin Corrosion / Irritation	:	Causes skin irritation (Category 2)
iii	H317	Skin Sensitization	:	May cause an allergic skin reaction (Category 1)
iv	H319	Eye Irritation	:	Causes serious eye irritation (Category 2)
V	H334	Respiratory Sensitization	:	May cause allergy or asthma symptoms or breathing difficulties if inhaled (Category 1)
vi	H335	Specific Target Organ Toxicity (Respiratory)	:	May cause respiratory irritation; Single Exposure (Category 3)



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vii	H341	Category 1 (H317) Germ Cell Mutagenicity	:	Suspected of causing genetic defects Combustible liquid (Category 2)		
	For full text of H-statements mentioned in this section, see section 16					

2.2	GHS Label element	s, including precautionary statements
i	Pictogram	
ii	Signal word	: Danger
iii	Hazard Statement(s)	
	H226	: Flammable liquid and vapour
	H302	: Harmful if swallowed
	H315	: Causes skin irritation
	H317	: May cause an allergic skin reaction
	H319	: Causes serious eye irritation
	H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled
	H335	: May cause respiratory irritation; Single Exposure
	H341	: Suspected of causing genetic defects Combustible liquid
iv	Precautionary Stateme	ent(s)
	P210	: Keep away from heat, sparks, Open flames and other ignition sources
	P280	: Wear protective clothing, gloves, eye & face equipment
	P301 + P330 + P331	: IF SWALLOWED: rinse mouth. DO NOT induce vomiting
	P302 + P352	: IF ON SKIN: Wash with plenty of soap and water
	P305 + P351 + P338	: IF IN EYES: Rise cautiously with water for several minutes. Remove contact lenses in present.
	P312	: Immediately call a poison centre or doctor / physician



### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS No data available

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

	3.1	Substances		
	i	Molecular Weight	:	155.97 g/mol
ĺ	ii	Constituent Elements	:	C <sub>2</sub> H <sub>5</sub> I





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### 4. FIRST AID MEASURES

4.1	Symptoms							
i	Most important symptoms and effects, both acute and delayed							
	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May							
	cause allergic skin	cause allergic skin reaction. Symptoms of overexposure may be headache,						
	dizziness, tirednes	s, nausea and vomiting: Symptoms of allergic reaction may						
	include rash, itchin	g, swelling, trouble breathing, tingling of the hands and feet,						
	dizziness, lighthea	dedness, chest pain, muscle pain or flushing						
ii	Indication of any	immediate medical attention & special treatment needed						
	If seeking medical	attention, provide SDS document to physician.						
4.2	Description of f	irst aid measures						
		If inhaled, move victim to fresh air. Loosen tight clothing such						
i	Inhalation :	as a collar, tie, belt or waistband. If breathing is difficult,						
'	innalation .	administer oxygen. If not breathing, give artificial respiration.						
		If breathing is difficult, give oxygen. Get medical attention.						
		Rinse mouth out with water. If you feel still feel unwell,						
ii	Ingestion :	immediately make victim drink a slurry of activated charcoal						
		in water (two glasses at most). Consult a doctor.						
		Take off immediately all contaminated clothing. Wash skin						
iii	Skin contact :	with plenty of water. Cover the irritated skin with an emollient						
		If skin irritation occurs: Get medical advice/attention.						
		Remove contact lenses, if present and easy to do. Continue						
iv	Eye contact :	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 (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.
ii	Special hazards : arising from the substance or mixture	Vapors may travel to source of ignition and flash back. Vapors may form explosive mixture with air. Keep product and empty container away from heat and sources of ignition. Risk of ignition. Combustible material. Containers may explode when heated.
lii	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.
iv	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
	Use personal protective equipment as required. Ensure adequate ventilation.
i	Remove all sources of ignition. Take precautionary measures against static
	discharges.
6.2	Environmental precautions
0.2	·
	Corrosive solid. Stop leak if without risk. Do not get water inside container. Do not
	touch spilled material. Use water spray to reduce vapors. Prevent entry into
i	sewers, basements or confined areas; dyke if needed. Call for assistance on
	disposal. Be careful that the product is not present at a concentration level above
	TLV. Check TLV on the SDS and with local authorities.
6.3	Methods and material for containment and cleaning up
0.5	<u> </u>
	Cover drains. Cover spill with non-combustible material e.g. sand, mud &
İ	vermiculite. Observe possible material restrictions (see sections 7 and 10). Use
	gloves to take up dry. Dispose-off properly. Clean up affected area carefully.
6.4	Reference to other sections
i	For disposal see section 13



### 7. HANDLING AND STORAGE

7.1	Precautions for safe handling
	Wear personal protective equipment/face protection. Ensure adequate ventilation.
i	Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep
	away from open flames, hot surfaces and sources of ignition.
7.2	Conditions for safe storage, including any incompatibilities
	Keep tightly closed. Must be stored in tightly sealed containers away from light,
i	moisture and strong oxidizers. Keep container in a cool and well-ventilated area.
	Do not store in open, unlabelled or mislabelled containers.
7.3	Specific end use(s)
i	Used as ethylating agent in Grignard reaction.





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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	Control Parameters
i	Data not available
8.2	Exposure Controls
i	Appropriate engineering controls
	Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray In case of inadequate ventilation wear respiratory protection Contaminated work clothing should not be allowed out of the workplace Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces.
ii	Personal protective equipment
(a)	Eye / face protection
(4)	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.
(0)	Pody Protection
(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
	Do not let product enter drains.







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### 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Form: Liquid	Explosiveness	Not determined
	Color: clear colorless		
Odour	Ether like	Vapour pressure	133 hpa @ 18 °C
Odour threshold	No Data Available	Relative vapour	Not determined
		density at 20°C	
pH-value	Not Applicable	Relative density	No data available
Melting/Freezing	-108 °C	Solubilities	Not determined
point			
Boiling point	72.3°C at 1 atm	Partition	log Pow 2,0 - (Lit.)
	pressure	coefficient (n-	
		octanol/water)	
Flash Point	53 °C	Auto/Self-ignition	Not determined
		temperature	
Evaporation rate	Not determined	Decomposition	Not determined
		temperature	
Flammability	Flammable	Viscosity	0.592 cp at 20°C
Density	1.950 g/cm <sup>3</sup>	Poison Class	Not determined



#### 10. STABILITY & REACTIVITY

(a)	Reactivity	:	Non-reactive under normal conditions. Reacts (slowly) with some metals			
(b)	Chemical stability	:	Stable under normal conditions. Moisture sensitive. Light sensitive.			
(c)	Possible hazardous reactions	:	None under normal processing. Hazardous polymerization does not occur.			
			, ,			
(d)	Conditions to avoid	:	Incompatible products. Excess heat. Keep away from			
			open flames, hot surfaces and sources of ignition.			
			Exposure to moist air or water. Protect from light.			
(e)	Incompatible material	:	Strong oxidizing agents			
(f)	Hazardous	:	Hazardous decomposition products formed under fire			
	decomposition products		conditions Carbon oxides, Hydrogen iodide			



### 11. TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects				
	Oral	LD50 Rat	65 mg/kg		
11.2	Corrosion Irritation				
	Serious eye damage	e / irritation	Causes serious eye irritation		
	Respiratory or skin irritation		May cause sensitization by inhalation		
			and skin contact.		
	Germ cell mutagenicity		Mutagenicity tests are positive		
	Carcinogenicity		Not determined.		
	Reproductive Toxicit	ту	No information available		
11.3	Additional inform	ation			
i	No data available				





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### 12. ECOLOGICAL INFORMATION

12.1	Toxicity					
No inf	No information available					
12.2	Persistence and degradability					
(a)	Persistence and degradability	Biodegradability				
(b)	Biodegradation	No information available				
12.3	Bio accumulative potential					
(a)	Bio accumulative potential No information available					
40.4	Mahilita in Oali					
12.4	Mobility in Soil					
(a)	Partition coefficient n-octanol/water (Log Koc)	Will likely be mobile in the				
		environment due to its volatility.				
40 -						
12.5	Results of PBT and vPvB assessment					
	No data available					
12.6	2.6 Other adverse effects					
	Not known					



### 13. DISPOSAL CONSIDERATIONS

13.1	Waste disposal recommendation's
i	General instructions
	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
ii	Product / Packaging disposal recommendations
	Avoid release to the environment/ Drains



### 14. TRANSPORT INFORMATION

14.1	In accordance with ADR / IMDG / IATA / ADN / RID					
	ADR	IMDG	IATA	ADN	RID	
i	UN Number					
	UN 1933	UN 1933	UN 1933	UN 1933	UN 1933	
ii	UN proper shipping name					
	Ethyl lodide	Ethyl lodide	Ethyl lodide	Ethyl lodide	Ethyl lodide	
iii	Transport hazard class					
	3	3	3	3	3	
iv	Hazardous class symbols					





# Samrat Pharmachem Limited Manufacture 2 T

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٧	Packing group					
	III	III	III	III	III	
vi	Environment hazards: Dangerous for the environment					
	Yes	Yes	Yes	Yes	Yes	
vii	Marine Pollutant					
	Not applicable	No	Not applicable	Not applicable	Not applicable	
14.2	Special precautions for user					
i	No data available					

### 15. REGULATORY INFORMATION

15.1	Regulations				
i	This material safety data sheet complies with the requirements of Regulation (EC)				
	No.1907/2006				
ii	This material, as supplied, contains one or more substances regulated as a				
	hazardous substance under the Comprehensive Environmental Response				
	Compensation and Liability Act (CERCLA) (40 CFR 302)				

### **16. OTHER INFORMATION**

16.1	NFPA Rating	2 1
i	Health hazard	<ul><li>2 -Intense or continued but not chronic exposure could</li><li>cause temporary incapacitation or possible residual injury</li></ul>
ii	Fire hazard	<ul><li>1-Materials that require considerable preheating, under</li><li>all ambient temperature conditions, before ignition and combustion can occur</li></ul>
iii	Reactivity	1-Normally stable, but can become unstable at elevated temperatures and pressures



### **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	า		
	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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