

Manufacturers & Exporters of Pharmaceutical Chemicals

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product identifiers	;	
i	Product Name	:	Sodium Iodide
ii	Chemical Formula	:	Nal
iii	CAS No.	:	7681-82-5
iv	EC No.	:	231-679-3
v	HSN Code	:	28276020
vi	Hazardous	:	Yes
vii	Content	:	Minimum 99.0%
viii	Appearance	:	White Crystalline Powder
1.2	Relevant identified	luse	s of the substance
i	Identified uses	:	Laboratory chemicals, Manufacture of substances
1.3	Details of Manufac	ture	r
i	Company	:	Samrat Pharmachem Limited
ii	Address	:	Plot No. A2/3444-3445, GIDC, Phase 4, Ankleshwar – 393002, Gujarat, India.
			inula.
iii	Phone	:	+91-7045456789 / 7046456789
iii iv	Phone Email	:	
		:	+91-7045456789 / 7046456789
iv	Email	: : : >r	+91-7045456789 / 7046456789 <u>contact@samratpharmachem.in</u>





2. HAZARD IDENTIFICATION

2.1	Classification of substance						
	Classification according to Regulation (EC) No 1272/2008						
i	H315	Skin Corrosion / Irritation	:	Causes skin irritation (Category 2)			
ii	H319	Eye Irritation	:	Causes serious eye irritation (Category 2)			
iii	H372	Specific Target Organ		Thyroid; Repeated Exposure (Category			
	11372	Toxicity (Oral)	•	1)			
iv	iv H400 Acute Aquatic Hazard : Toxic to Aquatic Life (Category 1)						
	For full text of H-statements mentioned in this section, see section 16						

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2.2	GHS Label element	ts, i	including precautionary statements
i	Pictogram	:	
ii	Signal word	:	Danger
iii	Hazard Statement(s)		
	H315	:	Causes skin irritation
	H319	:	Causes serious eye irritation
	H372	:	Causes damage to organs (thyroid gland) through
			prolonged or repeated exposure
	H400	:	Very toxic to aquatic life
iv	Precautionary Stateme	ent(s)
	P261	:	Avoid breathing dust / fumes / gas / mist / vapours / spray
	P264	:	Wash exposed skin thoroughly after handling
	P273	:	Avoid release to the environment
	P302 + P352	:	IF ON SKIN: Wash with plenty of water.
	P305 + P351 + P338	:	IF IN EYES: Rise cautiously with water for several
			minutes. Remove contact lenses in present.
	P314	:	Get medical advice/ attention if you feel unwell.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1	Substances		
i	Molecular Weight	:	149.89 g/mol
ii	Constituent Elements	:	Sodium (Na) Iodine (I)

4. FIRST AID MEASURES

4.1	Symptoms
i	Most important symptoms and effects, both acute and delayed
	Eye Burn / Irritation, Nausea, Headache, Shortness of breath.
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 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	Swallowing	:	Rinse mouth thoroughly. Do not induce vomiting. Have
			exposed individual drink sips of water. Seek medical
			attention if irritation, discomfort or vomiting persists.
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	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	Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors. Fire may cause evolution of Hydrogen iodide. Sodium oxides may also be generated, ambient fire may liberate hazardous vapours.		
iii	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.		



6. ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment & emergency			
	procedures			
	Wear protective equipment. Transfer to a disposal or recovery container. Use spark-proof tools and explosion proof equipment. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat. Stop the spill, if possible.			





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6.2	Environmental precautions
	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers
	or public waters. Avoid release to the environment. Do not let product enter drains.
	Clean up spills in a manner that does not disperse dust into the air. Use non-
	sparking tools and equipment.
6.3	Methods and material for containment and cleaning up
	If in a laboratory setting, follow Chemical Hygiene Plan procedures. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect solids in powder form using vacuum with (HEPA filter).
6.4	Reference to other sections
	For disposal see section 13

7. HANDLING AND STORAGE

7.1	Precautions for safe handling
	Wash hands after handling. Routine housekeeping should be instituted to ensure
	that dusts do not accumulate on surfaces. Follow good hygiene procedures when
	handling chemical materials. Use only in well-ventilated areas. Avoid generation
	of dust or fine particulate. Avoid contact with eyes, skin, and clothing.
	·
7.2	Conditions for safe storage, including any incompatibilities
	Provide ventilation for containers. Avoid storage near extreme heat, ignition
	sources or open flame. Store away from foodstuffs. Store away from oxidizing
	agents. Store in cool, dry conditions in well-sealed containers. Store with like
	hazards.
	·
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					
	Predic	ted no effect concentra	ation (PNEC)			
	Particulars Value Exposure Time					
(a)	Fresh Water	0.28 mg / l	short-term (single instance)			
(b)	Sea Water	28 µg / I	short-term (single instance)			
(C)	Fresh water sediment	1.38 mg / kg	short-term (single instance)			
(d)	Sea sediment	0.138 mg / kg	short-term (single instance)			
(e)	Soil	0.111 mg / kg	short-term (single instance)			
ii	Derived no effect level (DNEL's)					
(a)	Worker (Industry)	0.822 mg/m ³	chronic - systemic effects			
(b)	Worker (Industry)	0.233 mg/kg bw/day	chronic - systemic effects			



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8.2	Exposure Controls					
i	Appropriate engineering controls					
	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.					
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					
	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.					
(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					
	Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection is advisable.					
(e)	Control of environmental exposure					
	Do not let product enter drains.					



9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Form: Crystalline	Flammability	Not determined
	Colour: White		
Odour	Odourless	Vapour pressure	1,3 hPa at 767 °C
Odour threshold	Not Applicable	Relative vapour	Not determined
		density at 20°C	
pH-value	8,2 at 26 °C	Relative density	3.6670
Melting/Freezing	659 °C at 975 hPa –	Solubilities	165 g/l at 25 ºC -
point	OECD Guideline 102		soluble
Boiling point	1.304 °C at 1.013	Partition	Pow: 0,5; log Pow: -
	hPa	coefficient (n-	1,3 at 25 °C
		octanol/water)	
Flash Point	Not determined	Auto/Self-ignition	Not determined
		temperature	
Evaporation rate	Not determined	Decomposition	Not determined
		temperature	
Flammability	Not determined	Viscosity	Not determined
Density	3.5 g/cm3 at 25 °C	Poison Class	Not determined
Bulk Density	ca. 1.500 – 2.00	Dissociation	0.06 at 25 °C
	kg/m ³	Constant	





10. STABILITY & REACTIVITY

i	Reactivity	:	Non-reactive under normal conditions. Reacts (slowly) with some metals		
ii	Chemical stability	:	The product is chemically stable under standard ambient conditions (room temperature). Moisture sensitive. Hydroscopic solid.		
iii	Possible hazardous reactions	:	None under normal processing.		
iv	Conditions to avoid	:	Store away from oxidizing agents, strong acids or bases. Incompatible materials, exposure to air, light, moist air or water, excess heat, dust formation.		
v	Incompatible material	:	Strong reducing agents, metals, metallic powder & strong oxidisers		
vi	Hazardous decomposition products	:	 Risk of explosion with: Alkali metals, Ammonia, halogen-halogen compounds and hydrogen peroxide. 		
			Risk of ignition or formation of inflammable gases with: perchloric acid Fluorine		
			Exothermic reaction with: Oxidizing agents, lodine		



11. TOXCICOLOGICAL INFORMATION

11.1	Information on to	xicological effects	5		
i	Oral	LD50 Rat	4.340 mg/kg		
ii	Dermal	Not classified due to	data which are conclusive although		
		insufficient for class	ification.		
iii	Inhalation	Not classified due to	data which are conclusive although		
		insufficient for class	ification.		
iv	Additional	Harmful if swallowed	d. Harmful in contact with skin. Harmful if		
	Information:	inhaled. (OECD 403	B method)		
11.2	Corrosion Irritation	Corrosion Irritation			
i	Serious eye damage	e / irritation	Causes serious eye irritation (Draize		
			Test)		
ii	Respiratory or skin i	rritation	Shall not be classified as a respiratory or		
			skin sensitizer (ECHA)		
iii	Germ cell mutagenie	city	Mutagenicity tests are negative (OECD		
			471 test guideline)		
iv	Carcinogenicity		Did not show carcinogenic effects in		
			experiments		
V	Reproductive Toxici	ty	Not classified (OECD 422 test method)		





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11.3	Additional information						
i	No observed adverse effect level (NOAEL)						
	Particulars Value						
(a)	Specific target organ toxicity (STOT)	Not classified. No data available.					
	Single exposure						
(b)	LD50 Rat: Oral	4.340 mg/kg					
(c)	Specific target organ toxicity (STOT)	Category 1:					
	Repeated exposure	Thyroid affection					
ii	Aspiration Hazard	Not classified					
iii	Viscosity, Kinematic	Not applicable					
iv	Prolonged exposure to iodides may	produce iodism in sensitive individuals.					
	Symptoms of exposure include: skin rasl	n, running nose, headache and irritation of					
	the mucous membrane. For severe case	s the skin may show pimples, boils, hives,					
	blisters and black and blue spots. lodide	s are readily diffused across the placenta.					
	Neonatal deaths from respiratory distress secondary to goiter have been reported.						
	lodides have been known to cause drug	induced fevers, which are usually of short					
	duration. To the best of our knowledge,	the chemical, physical, and toxicological					
	properties have not been thoroughly inve	stigated.					

12. ECOLOGICAL INFORMATION

12.1	Toxicity			
i	Particulars	Туре	Value	
(a)	Fish LC50	Danio rerio (zebra fis	h) > 100 mg/l, 96 hours	
(b)	Daphina EC50	Daphnia magna (wat flea)	er 0.17 mg/l, 48 hours	
(c)	Other aquatic invertebrates EC 50	Algae	0.17 mg/l	
ii	Ecology – general	Very toxic to aquati	c life. Before neutralisation, the	
		product may represe	nt a danger to aquatic organisms	
iii	Ecology – air Not dangerous for the ozone layer			
iv	Hazardous to aquatic	Very toxic to aquatic	life	
	environment – short term			
	(acute)			
V	Hazardous to aquatic	Not classified		
	environment – long term			
	(chronic)			
12.2	Persistence and degrada	ability		
i	Persistence and degradability	у	Not applicable (inorganic)	
ii	Biodegradation		Not applicable (inorganic)	
12.3	Bio accumulative potent	ial		
	No bioaccumulation is to be expected (log Pow <= 4)			
12.4	Mobility in Soil			
	No data available			





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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					
	Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.					
ii		g disposal recommendations				
	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container					
iii	European list of wa	ste (LoW) code				
	Code Content					
	18 01 06*	18 01 06* Chemicals consisting of or containing dangerous substances				
	15 01 10*	Packaging containing residues of or contaminated by dangerous substances				

REAL PROPERTY OF THE PROPERTY

14. TRANSPORT INFORMATION

14.1	In accordance with ADR / IMDG / IATA / ADN / RID					
	ADR	IMDG	ΙΑΤΑ	ADN	RID	
i	UN Number					
	UN 3077	UN 3077	UN 3077	UN 3077	UN 3077	
ii	UN proper shipp	bing name				
	ENVIRONMEN	TALLY HAZARDO	DUS SUBSTANCI	E,SOLID, N.O.S.	(Sodium Iodide)	
iii	Transport hazar	d class				
	9	9	9	9	9	
iv	Hazardous clas	s symbols				
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V	Packing group					
	III		III	III	III	
vi	Environment ha	zards: Danger	ous for the environn	nent		
	Yes	Yes	Yes	Yes	Yes	
vii	Marine Pollutan	t	·			
	Yes	Yes	Yes	Yes	Yes	
14.2	Special preca		ser			
i	Overland Trans	port				
(a)	Classification code (ADR) M7					
(b)	Special provisio	ns (ADR)	274, 335, 601, 3	375		
(c)	Orange plates		90 3077			
(d)	Hazard Identific (Kemler No.)	ation No.	90			
ii	Transport by se	а				
	Special provisio	ns (IMDG)	274, 335, 966, 9	967, 969		
iii	Air transport					
	Special provisio	ns (IATA)	A97, A158, A17	79, A197		
iv	Inland waterway	/ transport				
(a)	Classification co	ode (ADN)	M7			
(b)	Special provisio	ns	274, 335, 375, 0	601		
V	Rail Transport	Rail Transport				
(a)	Classification co	ode (RID)	M7			
(b)	Special provisio	. ,	274, 335, 375, 0			
14.3	Transport in I	oulk accordi	ng to annexure II	of Marpol and	the IBC Code	
	IBC Code		Not applicable			

15. REGULATORY INFORMATION

15.1	EU - Regulatior	15		
i	No REACH Annexure XVII restrictions			
ii	Sodium lodide is I	not the REACH Candidate List		
iii	Sodium Iodide is I	not on the REACH Annexure XIV List		
iv	Sodium lodide is	not subject to Regulations (EU) No. 649/2012 of the European		
	Parliament and of the Council of 4 July 2012 concerning the export and import of			
	hazardous chemicals			
v	Sodium lodide is not subject to Regulation (EU) No. 2019/1021 of the European			
	Parliament and of the Council of 20 June 2019 on persistent organic pollutants			
15.2	National Regulations (Listed on)			
i	AICS Australian Inventory of Chemical Substances			
ii	Canadian DSL	Canadian Domestic Substances List		



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iii	CICR	Chemical Inventory & Control Regulation	
iv	IECSC	Inventory of Existing Chemical Substances Produced or	
		Imported in China	
v	ECSI	EC Substance Inventory	
vi	KECL/KECI	Korean Existing Chemicals Inventory	
vii	NZIoC	New Zealand Inventory of Chemicals	
viii	PICCS	Philippines Inventory of Chemicals & Chemical Substances	
ix	US TSCA	United States Toxic Substances Control Act	
х	REACH REG.	REACH Registered Substance	
xi	INSQ	Mexican National Inventory of Chemical Substances	
xii	CSCL-ENCS	List of Existing & New Chemical Substance	
xiii	TCSI	Taiwan Chemical Substance Inventory	

16. OTHER INFORMATION

	NFPA Rating			0	0
i	Health hazard	:	0 - Materials that, under emerge cause temporary incapacitation or r	esidual injury.	
ii	Fire hazard	:	0 - Materials that will not burn conditions, including intrinsical materials such as concrete, stone, a	ly non-coml	
iii	Reactivity	:	0 - Material that in themselves are r under fire conditions.	normally stable	e, even
16.2	HMIS Rating			Health	0
				Fire	0
				Reactivity	0
				Personal Protection	А
i	Health	:	0 - No significant risk to health		
ii	Flammability	:	0 - Minimal Hazard - Materials that	will not burn	
iii	Physical	:	0 - Minimal Hazard - Materials that even under fire conditions, and will I polymerize, decompose, condense Explosives.	NOT react with	n water,
vi	Personal Protection	:	A - Gloves. Synthetic apron. Vapor Be sure to use an approved/ce equivalent. Wear appropriate respin is inadequate. Splash goggles.	ertified respira	ator or



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.

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.