

Manufacturers & Exporters of Pharmaceutical Chemicals

SAFETY DATA SHEET

Version: 2.0 Revision Date: 01/01/2022

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
٧	HSN Code	:	28276020
vi	Hazardous	:	Yes
vii	Content	:	Minimum 99.0%
viii	Appearance	:	White Crystalline Powder
1.2	Relevant identified u	ıse	s of the substance
i	Identified uses	:	Laboratory chemicals, Manufacture of substances
1.3	Details of Manufactu	ıre	r
i	Company	:	Samrat Pharmachem Limited
			Plot No. A2/3445,
			GIDC, Phase 4,
ii	Address	:	Ankleshwar – 393002,
			Gujarat,
			India.
iii	Phone	:	+91-7045456789 / 7046456789
iv	Email	:	contact@samratpharmachem.in
٧	Webpage	:	www.samratpharmachem.com
1.4	Emergency Number		





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 Toxicity (Oral)	:	Thyroid; Repeated Exposure (Category 1)			
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	s, 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.
	1 314	•	Get medical advice/ attention if you leef driwell.



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		
	Molecular Weight	:	149.89 g/mol
	Constituent Elements	:	Sodium (Na) Iodine (I)





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4. FIRST AID MEASURES

4.1	Symptoms					
i	Most important symptoms and effects, both acute and delayed					
	Eye Burn / Irritati	on, Nausea, Headache, Shortness of breath.				
ii	Indication of an	y immediate medical attention & special treatment needed				
	If seeking medica	al 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	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.





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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.

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.



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







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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	Control Parameters				
i	Ingredients with workplace control parameters				
		ted no effect concentra	, ,		
	Particulars	Value	Exposure Time		
(a)	Fresh Water	0.28 mg / I	short-term (single instance)		
(b)	Sea Water	28 μg / l	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)		
			2015/11		
ii		erived no effect level (l			
(a)	Worker (Industry)	0.822 mg/m ³	chronic - systemic effects		
(b)	Worker (Industry)	0.233 mg/kg bw/day	chronic - systemic effects		
8.2	Exposure Controls				
I	Appropriate engineering co	ontrols			
	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 equi	pment			
(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 device when high concent	rations are present. Us	se suitable respiratory protective se suitable respiratory protective espiratory protection is advisable.		
(e)	Control of environmental ex	xposure			
	Do not let product enter dra	·			
	<u> </u>				







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9. PHYSICAL & CHEMICAL PROPERTIES

	1	I	T
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 °C -
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/m³	Constant	



10. STABILITY & REACTIVITY

Reactivity	:	Non-reactive under normal conditions. Reacts (slowly)
		with some metals
Chemical stability	:	The product is chemically stable under standard
		ambient conditions (room temperature) . Moisture
		sensitive. Hydroscopic solid.
Possible hazardous	:	None under normal processing.
reactions		
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.
Incompatible material	:	Strong reducing agents, metals, metallic powder &
		strong oxidisers
Hazardous	:	Risk of explosion with:
decomposition products		Alkali metals, Ammonia, halogen-halogen compounds
		and hydrogen peroxide.
		Distriction of the Control of the Co
		Risk of ignition or formation of inflammable gases with:
		perchloric acid Fluorine
		Exothermic reaction with:
		Oxidizing agents, Iodine
	Chemical stability Possible hazardous reactions Conditions to avoid Incompatible material Hazardous	Chemical stability : Possible hazardous : reactions Conditions to avoid : Incompatible material : Hazardous :





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11. TOXCICOLOGICAL INFORMATION

11.1	Information on to	xicological effects	3		
	Oral	LD50 Rat	4.340 mg/kg		
	Dermal	Not classified due to	data which are conclusive although		
		insufficient for class	ification.		
	Inhalation	Not classified due to data which are conclusive although			
		insufficient for class			
	Additional		d. Harmful in contact with skin. Harmful if		
	Information:	inhaled. (OECD 403	B method)		
11.2	Corrosion Irritation				
	Serious eye damage	e / irritation	Causes serious eye irritation (Draize		
			Test)		
	Respiratory or skin in	rritation	Shall not be classified as a respiratory or		
			skin sensitiser (ECHA)		
	Germ cell mutagenio	city	Mutagenicity tests are negative (OECD		
			471 test guideline)		
	Carcinogenicity		Did not show carcinogenic effects in		
			experiments		
	Reproductive Toxicit	•	Not classified (OECD 422 test method)		
11.3	Additional inform				
i		e effect level (NOAEL	,		
	Particulars		Value		
	Specific target organ	toxicity (STOT)	Not classified. No data available.		
	Single exposure				
	LD50 Rat: Oral		4.340 mg/kg		
	Specific target organ	toxicity (STOT)	Category 1:		
	Repeated exposure		Thyroid affection		
ii	Aspiration Hazard		Not classified		
iii	Viscosity, Kinematic		Not applicable		
iv	Prolonged exposure	e to iodides may p	produce iodism in sensitive individuals.		
	Symptoms of expos	ure include: skin rash	n, running nose, headache and irritation of		
	the mucous membra	ane. For severe case	s the skin may show pimples, boils, hives,		
	blisters and black ar	nd blue spots. Iodide:	s are readily diffused across the placenta.		
	Neonatal deaths from	m respiratory distress	s secondary to goiter have been reported.		
		•	induced fevers, which are usually of short		
			the chemical, physical, and toxicological		
	properties have not l	been thoroughly inves	stigated.		





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12. ECOLOGICAL INFORMATION

12.1	Toxicity				
i	Particulars	Туре		Value	
	Fish LC50	Danio rerio (zebra fi	sh)	> 100 mg/l, 96 hours	
	Daphina EC50	Daphnia magna (wa	ter	0.17 mg/l, 48 hours	
		flea)			
	Other aquatic invertebrates EC 50	Algae		0.17 mg/l	
ii	Ecology – general			. Before neutralisation, the langer to aquatic organisms	
iii	Ecology – air	Not dangerous for th	ne ozo	ne layer	
iv	Hazardous to aquatic	Very toxic to aquation	life		
	environment – short term				
	(acute)				
٧	Hazardous to aquatic	Not classified			
	environment – long term				
	(chronic)				
12.2	Persistence and degrada	ability			
(a)	Persistence and degradability	•	Not a	pplicable (inorganic)	
(b)	Biodegradation	,		pplicable (inorganic)	
				7	
12.3	Bio accumulative potent	ial			
(a)	No bioaccumulation is to be	expected (log Pow <=	4)		
12.4	Mobility in Soil				
	No data available				
12.5	Results of PBT and vPvE				
	This substance/mixture conta	•		•	
	bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative				
	(vPvB) at levels of 0.1% or hi	gher.			
12.6	Other adverse offects				
12.6	Other adverse effects				
	Not known				





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13. DISPOSAL CONSIDERATIONS

13.1	Waste disposal	recommendation's		
i	General instructions	General instructions		
	Do not allow produ	ct to reach sewage system or open water. It is the responsibility		
	of the waste gene	rator to properly characterize all waste materials according to		
	applicable regulato	ry entities (US 40CFR262.11). Chemical waste generators must		
	determine whether	a discarded chemical is classified as a hazardous waste. Consult		
	federal state/ provir	ncial and local regulations regarding the proper disposal of waste		
	material that may ir	ncorporate some amount of this product.		
ii	Product / Packaging 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	Code Content		
	18 01 06*	Chemicals consisting of or containing dangerous substances		
	15 01 10*	Packaging containing residues of or contaminated by dangerous substances		



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				
	ENVIRONMEN [*]	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Sodium Iodide)			(Sodium Iodide)
iii	Transport hazar	d class			
	9	9	9	9	9
iv	Hazardous clas	s symbols			
V	Packing group				
	III	III	III	III	III
vi	Environment hazards: Dangerous for the environment				
	Yes	Yes	Yes	Yes	Yes
vii	Marine Pollutant				
	Yes	Yes	Yes	Yes	Yes





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14.2	Special precautions for user		
i	Overland Transport		
(a)	Classification code (ADR)	M7	
(b)	Special provisions (ADR)	274, 335, 601, 375	
(c)	Orange plates	90 3077	
(d)	Hazard Identification No. (Kemler No.)	90	
ii	Transport by sea		
	Special provisions (IMDG)	274, 335, 966, 967, 969	
iii	Air transport		
	Special provisions (IATA)	A97, A158, A179, A197	
iv	Inland waterway transport		
(a)	Classification code (ADN) M7		
(b)	Special provisions 274, 335, 375, 601		
٧	Rail Transport		
(a)	Classification code (RID)	M7	
(b)	Special provision (RID)	274, 335, 375, 601	
14.3	Transport in bulk according	to annexure II of Marpol and the IBC Code	
	IBC Code	Not applicable	

15. REGULATORY INFORMATION

15.1	EU - Regulation	ns	
i	No REACH Annexure XVII restrictions		
ii	Sodium Iodide is	not the REACH Candidate List	
iii	Sodium Iodide is	not on the REACH Annexure XIV List	
iv	Sodium Iodide 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	
iii	CICR	Chemical Inventory & Control Regulation	
iv	IECSC	Inventory of Existing Chemical Substances Produced or	
		Imported in China	
V	ECSI	EC Substance Inventory	



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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

16.1	NFPA Rating		0 0	
i	Health hazard	: 0 - Materials that, under eme		
ii	Fire hazard	: 0 - Materials that will not b conditions, including intrinsi	0 - Materials that will not burn under typical dire	
iii	Reactivity	: 0 - Material that in themselves a under fire conditions.	re normally stable, even	
16.2	HMIS Rating		Health 0 Fire 0	
			Reactivity 0 Personal A	
			Pro tection A	
i	Health	: 0 - No significant risk to health		
ii	Flammability	: 0 - Minimal Hazard - Materials th	0 - Minimal Hazard - Materials that will not burn	
iii	Physical	0 - Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.		
Vi	Personal Protection	A - Gloves. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.		
16.3	Further Information	<u> </u>		
	The above information	is derived from the available literati	ure & believed to be	
	correct but may not be complete & conclusive. The company shall not be			



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	responsible for any damage resulting from handling or usage of the product. The		
	information shall be used only as a guide.		
16.4	Preparation Informa	ition	
	Samrat Pharmachem Limited		
	Plot No. A2/3445,		
	GIDC, Phase 4,		
	Ankleshwar – 393002, Gujarat, India. Phone: +91-7045456789, +91-7046456789		
	Email: contact@samratpharmachem.in		
	Website: www.samratpharmachem.com		
	Version: 2.0	Revision Date: 01/01/2022	



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