

SAFETY DATA SHEET (SDS)


Sodium iodide, 0.1M

Issue date: 9-12-2025

Section 1: Product Identifier and Chemical Identity

Product Identifier	
Product Name:	Sodium Iodide, 0.1M
Product Codes:	MC91.35, MC92.35
Other means of identification:	
Chemical formula, alternative names:	$\text{NaI}_{(\text{aq})}$
Recommended use of the chemical and restrictions on use	
Recommended Use:	For laboratory use only.
Suppliers name, address and phone number	
Supplier's Name:	Southern Biological
Supplier's ABN:	94 630 703 810
Supplier's Address:	168 Fulham Road Alphington Victoria 3078 Australia
Supplier's Phone No.:	1300 138 561
Emergency Phone number (BH)	1300 138 561

Section 2: Hazard Identification

Classification of the Hazardous Chemical	
Hazard Category	Hazardous to the aquatic environment (acute) – category 1
Label elements	
Hazard Pictograms:	 Environment
Signal Word:	Warning
Hazard Statements:	Very toxic to aquatic life
Precautionary Statements:	Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not ingest.
Other Hazards	
Results of PBT and vPvB assessment:	PBT: Not applicable VPvB: Not applicable

Section 3: Composition/information on ingredients

Ingredients		
Name	CAS	Proportion
Water	7732-18-5	98.5%
Sodium iodide	7681-82-5	1.5%

Section 4: First Aid Measures

Necessary first aid measures	
After inhalation:	Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms; call a doctor.
After skin contact:	Wash with water and soap and rinse thoroughly. If skin irritation occurs: Get medical advice/ attention.
After eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
After swallowing:	DO NOT INDUCE VOMITING. Wash out mouth with water. Obtain emergency medical attention. Call a POISON CENTRE or doctor/physician if you feel unwell.
Symptoms caused by exposure	
Acute:	Symptoms may include nausea, vomiting, diarrhoea, coughing, redness of the skin
Delayed:	May cause lung oedema, skin sensitisation
Medical attention and special treatment	
Indications of any immediate medical attention and special treatment needed	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor

Section 5: Firefighting measures

Extinguishing media	
Suitable extinguishing equipment:	Use extinguishing measures that are appropriate to local circumstances and the surrounding fire
Specific hazards arising from the chemical:	May liberate hydrogen iodide in fire
Advice for firefighters	
Special protective equipment and precautions:	Do not enter the fire area without proper protective equipment including respiratory equipment.

Section 6: Accidental release measures

General Information	
Personal precautions, protective equipment and emergency procedures:	Evacuate the area of all non-essential personnel. Follow personal protective equipment recommendations found in Section 8 of this SDS. Prevent the spread of any spill to minimise harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum.
Environmental precautions:	Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if spill to sewers or public waters.
Methods and material for containment and cleaning up:	Do not touch or walk through spill. Dispose of contaminating material as waste according to item 13. Ensure adequate ventilation.
Reference to other sections:	See Section 7 for information on safe handling. See Section 8 for information on protective equipment. See Section 13 for disposal information.

Section 7: Handling and Storage

General Information	
Precautions for safe handling:	Ensure good ventilation/exhaustion at the workplace. Wash hands after use. Do not eat, drink or smoke when using this product. Wash contaminated clothing and protective equipment prior to entering eating area.
Information about fire – and explosion protection:	No special measures required.
Conditions for safe storage, including any incompatibilities.	
Storage:	Store in cool dry area out of direct sunlight and incompatible materials. Keep containers closed when not in use. Store in suitably labelled containers.
Requirements to be met by storerooms and receptacles:	No special requirements.
Information about storage in one common storage facility:	Not required.
Further information about storage conditions:	Keep container tightly sealed. Keep out of direct sunlight. Corrosive in presence of steel, aluminium, zinc and copper.

Section 8: Exposure controls/personal protection.

General information	
Additional information about design of technical facilities:	No further data: see section 7
Control parameters:	
Ingredients with limit values that require monitoring at the workplace: none	
Exposure Controls:	
General protective and hygienic measures:	Use only in systems, processes and procedures in which effective ventilation has been provided. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with eyes.
Respiratory protection:	In case of significant exposure use respiratory filter device. Not normally required.
Clothing / Foot-wear and equipment	No special requirements.
Protection of hands:	PVC or rubber gloves
Eye protection:	Tightly sealed goggles
Skin protection:	Laboratory Coat

Section 9: Physical and chemical properties

Appearance:	
Form:	Liquid
Colour:	Clear
Odour:	Not determined
Odour Threshold:	Not determined
pH value:	Not determined

Change in Condition:	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
Flash point:	Not determined
Flammability (solid / gaseous)	Not determined
Ignition Temperature	
Decomposition temperature:	Not determined
Self-igniting:	Not determined
Danger of explosion:	Not determined
Explosion limits	
Lower:	Not determined
Upper:	Not determined
Vapour pressure:	Not determined
Density:	Not determined
General Info	
Relative density:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined
Solubility in/ Miscibility with water:	Miscible
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	Not determined
Other information:	Not determined

Section 10: Stability and reactivity

Reactivity	
General	No further relevant information available.
Chemical Stability	
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	Exposure to moisture (substance is deliquescent), light, incompatible materials.
Incompatible materials:	Water-reactive chemicals, steel, aluminium, zinc, copper, acids, alkali metals, ammonia, bromide trifluoride, chloral hydrate, hydrogen peroxide, iodide, perchloric acid, potassium chlorate, and oxidising agents.
Hazardous decomposition products:	Hydrogen iodide vapours, sodium and sodium oxides.

Section 11: Toxicological information

Information on toxicological effects			
Ingestion:	May be harmful. Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. Ingestion of the material in large amounts may lead to a decrease in blood pressure, vomiting and a fever.		
Skin corrosion/irritation	May cause sensitisation by skin contact. Causes irritation, redness, itching and pain to skin.		
Serious eye damage/irritation:	Irritating to eyes. Causes redness and pain.		
Inhalation:	May be harmful if inhaled. Dust causes irritation to the respiratory tract and mucous membranes. Inhalation of dust may cause coughing, choking, headaches, dizziness and weakness. May cause lung oedema.		
Germ cell mutagenicity:	No data available		
Carcinogenicity:	No data available		
Reproductive toxicity:	No data available		
Specific target organ toxicity (STOT) – single exposure:	No data available		
Specific target organ toxicity (STOT) – repeated exposure:	No data available		
Chronic effects:	Prolonged or over exposure to iodine compounds may possibly lead to iodism; a toxic, chronic poisoning of iodine or iodides which causes coryza, ptyalism, emaciation weakness and skin eruptions (pimples, boils, hives, blisters as well as black and blue spots). Symptoms of iodism includes of skin rash, running nose, headache and irritation of the mucous membrane. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goitre have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration		
Toxicology data for the components:			
Component	LD50 oral	LD50 oral	LD50 intravenous
Sodium iodide	4340 mg/kg (rat)	1000 mg/kg (mouse)	1060 mg/kg (rat)

Section 12. Ecological information

Ecotoxicity	
Very toxic to aquatic life	
Acute toxicity:	Daphnia: ECO (Daphnia magna) 0.17 ,g/L/48hr
Persistence and degradability:	No further relevant information available.
Behaviour in environmental systems	
Bio-accumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Additional ecological information	
Results of PBT and vPvB assessment	PBT: Not applicable vPvB: Not applicable
Other adverse effects:	No further relevant information available.

Section 13. Disposal Considerations

Waste treatment methods	
Recommendation	Prevent this material from entering waterways, drains and sewers. Comply with official regulations.
Uncleaned packaging:	
Recommendation:	Disposal must be made according to official regulations.
Recommended cleansing agents:	Water, if necessary, together with cleansing agents.

Section 14. Transport information

General	UN number: 3082 Proper shipping name or technical name: Environmentally hazardous substance, liquid, NOS Transport hazard class: 9 Packing group number: III Limited quantities: 5L
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Section 15. Regulatory Information

Safety health and environmental regulations/legislation specific for the substance or mixture	
Australian Inventory of Chemical Substances:	Substances are listed.
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

Section 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- End of SDS -