

SAFETY DATA SHEET

1. Identification

Product identifier: SODIUM IODIDE

Other means of identification Product No.: 3748, 1141

Recommended use and restriction on use Recommended use: Not available. Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

	Avantor Performance Materials, Inc. 3477 Corporate Parkway, Suite 200 Center Valley, PA 18034
Telephone:	
	Customer Service: 855-282-6867
Fax:	610-573-2610
Contact Person:	Environmental Health & Safety
E-mail:	info@avantormaterials.com

Emergency telephone number: CHEMTREC: 1-800-424-9300 within US and Canada

CHEMTREC: 1-703-527-3887 outside US and Canada

2. Hazard(s) identification

Hazard Classification

	-		-
Heal	th	Haza	ards

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

Environmental Hazards

Acute hazards to the aquatic Category 1 environment

Label Elements

Hazard Symbol:



Signal N	Nord:
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Warning

Hazard Statement:

Causes skin irritation. Causes serious eye irritation. Very toxic to aquatic life.

Precautionary



Statement		
Prevention:	Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid release to the environment.	
Response:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Collect spillage.	
Unknown toxicity - Heal Acute toxicity, dermal Acute toxicity, inhalation, Acute toxicity, inhalation,	100 % vapor 100 %	

None.

Other hazards which do not result in GHS classification:

3. Composition/information on ingredients

Substances

Chemical Identity Common name and synonyms	d CAS number	Content in percent (%)*
SODIUM IODIDE	7681-82-5	90 - 100%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures		
General information:	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.	
Ingestion:	Rinse mouth thoroughly. Call a POISON CENTER or doctor/physician if you feel unwell.	
Inhalation:	Move to fresh air. Get medical attention if symptoms persist.	
Skin Contact:	Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.	
Eye contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
Most important symptoms/effe	cts, acute and delayed	
Symptoms:	Irritating to eyes, respiratory system and skin.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Treat symptomatically. Symptoms may be delayed.	
5. Fire-fighting measures		
General Fire Hazards:	No unusual fire or explosion hazards noted.	



Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	None known.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
6. Accidental release measures	S
Personal precautions, protective equipment and emergency procedures:	Keep unauthorized personnel away. Use personal protective equipment. Ventilate closed spaces before entering them. See Section 8 of the SDS for Personal Protective Equipment.
Methods and material for containment and cleaning up:	Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.
Notification Procedures:	Prevent entry into waterways, sewer, basements or confined areas. Stop leak if you can do so without risk. Inform authorities if large amounts are involved.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling:	Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities:	Keep container tightly closed. Store in a cool and well-ventilated place. Store in a dry place. Store away from incompatible materials.
8. Exposure controls/personal	protection
Control Parameters	

Occupational Exposure Limits

Chemical Identity ty	уре	Exposure Limit Values	Source
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SODIUM IODIDE - Inhalable fraction and vapor.	TWA	0,01 ppm	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)
SODIUM IODIDE - Inhalable fraction and vapor.	TWAEV	0,01 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
SODIUM IODIDE - Inhalable fraction and vapor.	TWA	0,01 ppm	US. ACGIH Threshold Limit Values (2011)

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area.
Eye/face protection:	Chemical goggles and face shield are recommended.
Skin Protection Hand Protection:	Wear protective gloves.
Skin protection:	Wear suitable protective clothing.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

9. Physical and chemical properties

Appearance

Physical state:	solid
Form:	Crystals or powder
Color:	White
Odor:	Odorless
Odor threshold:	No data available.
pH:	6 - 9 5% aqueous solution
Melting point/freezing point:	661 °C
Initial boiling point and boiling range:	1.304 °C
Flash Point:	not applicable
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explos	ive limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	0,13 kPa (767 °C)



Vapor density:	No data available.
Relative density:	3,67 (20 °C)
Solubility(ies)	
Solubility in water:	1.840 g/l (25 °C)
Solubility (other):	acetone: 399 g/l (25 °C) alcohol: 4.257 g/l (25 °C) glycerol: 1.000 g/l
Partition coefficient (n-octanol/water):	0,04
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Other information	
Bulk density:	1.500 kg/m3
Molecular weight:	149,92 g/mol (INa)

10. Stability and reactivity

Reactivity:	May react with strong oxidizers.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Contact with incompatible materials. Light.
Incompatible Materials:	Acids. Alkali metals. Oxidizing agents.
Hazardous Decomposition Products:	Sodium oxides

11. Toxicological information

Information on likely routes of e Ingestion:	xposure May cause irritation of the gastrointestinal tract.
Inhalation:	Dust may irritate respiratory system or lungs.
Skin Contact:	Causes skin irritation.
Eye contact:	Causes serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product:	LD 50 (Rat): 4.340 mg/kg
Dermal Product:	No data available.
Inhalation Product:	No data available.



Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	Causes skin irritation.
Serious Eye Damage/Eye Irritati Product:	on No data available.
Respiratory or Skin Sensitizatio Product:	n Not a skin sensitizer.
Carcinogenicity Product:	This substance has no evidence of carcinogenic properties.
IARC Monographs on the Evaluation No carcinogenic com	ation of Carcinogenic Risks to Humans: aponents identified
US. National Toxicology Progra No carcinogenic com	m (NTP) Report on Carcinogens: aponents identified
ACGIH Carcinogens: No carcinogenic com	ponents identified
Germ Cell Mutagenicity	
In vitro Product:	No mutagenic components identified
In vivo Product:	No mutagenic components identified
Reproductive toxicity Product:	No components toxic to reproduction
Specific Target Organ Toxicity - Product:	Single Exposure None known.
Specific Target Organ Toxicity - Product:	Repeated Exposure None known.
Aspiration Hazard Product:	Not classified
Other effects:	None known.
12 Ecological information	

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product:	No data available.
Sodium IODIDE	LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 1.900 - 4.200 mg/l Mortality
Aquatic Invertebrates Product:	No data available.



Sodium So	LC 50 (Water flea (Daphnia magna), 48 h): 0,1 - 0,3 mg/l Mortality
Chronic hazards to the aquation	c environment:
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	There are no data on the degradability of this product.
BOD/COD Ratio Product:	No data available.
Bioaccumulative Potential Bioconcentration Factor (BC Product:	CF) No data available on bioaccumulation.
Partition Coefficient n-octan Product:	ol / water (log Kow) Log Kow: 0,04
Mobility in Soil:	The product is water soluble and may spread in water systems.
Other Adverse Effects:	Very toxic to aquatic life.
13. Disposal considerations	
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated Packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.
14. Transport information	
TDG UN Number Proper Shipping Name	UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(SODIUM IODIDE)
Class Packing Group	9 III

Class	
Packing Group Label(s)	
Subsidiary risk label	

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IMDG

UN Number: UN Proper Shipping Name:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(SODIUM IODIDE)
Transport Hazard Class(es) Class: Label(s): EmS No.:	9 9 F-A, S-F
Packing Group: Marine Pollutant: Special precautions for user:	III Yes –
ΙΑΤΑ	
UN Number:	UN 3077
Proper Shipping Name:	Environmentally hazardous substance, solid, n.o.s.(SODIUM IODIDE)
Transport Hazard Class(es): Class: Label(s):	9 9
Marine Pollutant:	Yes
Packing Group:	III
Special precautions for user:	-

15. Regulatory information

Canada Federal Regulations

List of Toxic Substances (CEPA, Schedule 1) Not Regulated

Export Control List (CEPA 1999, Schedule 3) Not Regulated

National Pollutant Release Inventory (NPRI)

Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements

NPRI PT5 Not Regulated

Canada. Canadian Environmental Protection Act (CEPA). National Pollutant Release Inventory (NPRI) (Parts 1-4) NPRI Not Regulated

Greenhouse Gases

Not Regulated

Controlled Drugs and Substances Act

CA CDSI	Not Regulated
CA CDSII	Not Regulated
CA CDSIII	Not Regulated
CA CDSIV	Not Regulated
CA CDSV	Not Regulated
CA CDSVII	Not Regulated
CA CDSVIII	Not Regulated



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Precursor	Control	Regulations

Not Regulated

Montreal protocol	
not applicable	
Stockholm convention	
not applicable	
Rotterdam convention	
not applicable	
Kyoto protocol	
Kyoto protocol not applicable	
ventory Status:	
Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	On or in compliance with the inventory
Japan (ENCS) List:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.
16.Other information, including date of p	

No data available.

03.02.2016
No data available.
1.0

SDS_CA - SDS00000945

Further Information:



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