

SAFETY DATA SHEET

Creation Date 12-Nov-2009	Revision Date 16-Apr-2014	Revision Number 1
1. Identification		
Product Name	lodine, 0.1N standard solution	
Cat No. :	AC124220000; AC124220010; A	AC124220025
Synonyms	No information available.	
Recommended Use	Laboratory chemicals	
Uses advised against	No Information available	
Details of the supplier of the safety data sheet		
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Entity / Business Name Acros Organics One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 /

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Specific target organ toxicity - (repeated exposure)

Category 2

Europe:001-703-527-3887

Label Elements

Signal Word Warning

Hazard Statements

May cause damage to organs through prolonged or repeated exposure



Precautionary Statements Prevention Do not breathe dust/fume/gas/mist/vapors/spray Response Get medical attention/advice if you feel unwell Disposal Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition / information on ingredients

Haz/Non-haz		
Component	CAS-No	Weight %
lodine	7553-56-2	1-2

4. First-aid measures

General Advice	If symptoms persist, call a physician.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if symptoms occur
Skin Contact	Wash off immediately with plenty of water Get medical attention if symptoms occur
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting. Get medical attention if symptoms occur.
Most important symptoms/effects	None reasonably foreseeable.
Notes to Physician	Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire
Unsuitable Extinguishing Media	No information available.
Flash Point Method -	Not applicable No information available
Autoignition Temperature Explosion Limits	No information available.
Upper Lower	No data available No data available
Sensitivity to Mechanical	No information available
Impact Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Hazardous Combustion Products Hydrogen iodide.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA				
	Health	Flammability	Instability	Physical hazards
	1	0	0	N/A

	6. Accidental release measures
Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.
Environmental Precautions	Avoid release to the environment. See Section 12 for additional ecological Information.
Methods for Containment and Clean Up	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
lodine	TWA: 0.01 ppm	Ceiling: 0.1 ppm	IDLH: 2 ppm
	STEL: 0.1 ppm	Ceiling: 1 mg/m ³	Ceiling: 0.1 ppm
		(Vacated) Ceiling: 0.1 ppm	Ceiling: 1 mg/m ³
		(Vacated) Ceiling: 1 mg/m ³	

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
lodine	Ceiling: 0.1 ppm	Ceiling: 0.1 ppm	TWA: 0.01 ppm
	Ceiling: 1.0 mg/m ³	Ceiling: 1 mg/m ³	STEL: 0.1 ppm

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory ProtectionFollow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN
149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits
are exceeded or if irritation or other symptoms are experienced.

Handle in accordance with good industrial hygiene and safety practice.

Hygiene Measures

9. Physical and chemical properties

Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range

Liquid Dark brown pungent No information available. No information available. 0°C / 32°F

9. Physical and chemical properties

Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density Relative Density Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition temperature Viscosity 100°C / 212°F @ 760 mmHg Not applicable No information available. Not applicable No data available No data available 14 mmHg 0.7 1.02 Soluble in water No data available No information available. No information available.

10. Stability and reactivity

Reactive Hazard	None known, based on information available.
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Hydrogen iodide
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information	No acute toxicity information is available for this product
Oral LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Dermal LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Vapor LC50	Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.
Component Information	

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
lodine	315 mg/kg (Rat)	1425 mg/kg(Rabbit)	4.588 mg/L 4h (Rat)
Toxicologically Synergistic	No information available.		

Irritation	No information available.

Sensitization No information available.

Carcinogenicity

Products

The table below indicates whether each agency has listed any ingredient as a carcinogen

Componer	t CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
lodine	7553-56-2	Not listed				

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Mutagenic Effects	No information available.
Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure	None known.
STOT - repeated exposure	None known.
Aspiration hazard	No information available.
Symptoms / effects, both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

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This product contains the following substance(s) which are hazardous for the environment. ---

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
lodine	Not listed	LC50 = 1.67 mg/L 96h	Not listed	EC50 = 0.55 mg/L 48h
Persistence and Degradability Soluble in water, Persistence		ater, Persistence is unlikely, I	based on information ava	ailable.
Bioaccumulation/ Accumulation No information available		on available		
Mobility Will likely be mobile in the e		mobile in the environment de	ue to its water solubility.	
		log Pow		
		2.49		

13. Disposal considerations

Waste	Disposal	Methods

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.

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14. Transport information				
DOT	Not regulated			
TDG	Not regulated			
ΙΑΤΑ	Not regulated			
IMDG/IMO	Not regulated			

15. Regulatory information

national Inventories

15. Regulatory information

international inventories											
Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
lodine	Х	Х	-	231-442-4	-		Х	-	Х	Х	Х

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

No No No No

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazardous Categorizat Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Ha Reactive Hazard	
Clean Water Act	Not applicable
Clean Air Act	Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
lodine	Х	Х	Х	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Non-controlled

16. Other information

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date	12-Nov-2009
Revision Date	16-Apr-2014
Print Date	16-Apr-2014
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS