F Fisher Scientific

Material Safety Data Sheet Mercury (II) Iodide

MSDS# 13820

	Section 1 - Chemical Product and Company Identification
MSDS Name:	Mercury (II) Iodide
Catalog Numbers:	M166I-100, M166I-50, M166I-500
Synonyms:	Mercuric Iodide; Mercury Diiodide; Red Mercuric Iodide.
	Fisher Scientific

Company Identification:	One Reagent Lane
	Fair Lawn, NJ 07410
For information in the US, call:	201-796-7100
Emergency Number US:	201-796-7100
CHEMTREC Phone Number, US:	800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#:	7774-29-0
Chemical Name:	MERCURIC IODIDE
%:	>99
EINECS#:	231-873-8

Hazard Symbols:



Risk Phrases:

T+N



26/27/28 33 50/53

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! Highly toxic. Light sensitive. This substance has caused adverse reproductive and fetal effects in animals. May cause kidney damage. Poison! May cause central nervous system effects. Causes eye and skin burns. Causes digestive and respiratory tract burns. Target Organs: Kidneys, central nervous system.

Potential Health Effects

Eye:	Contact may cause severe eye irritation and possible eye damage.	
Skin:	May cause severe skin irritation. May be absorbed through the skin.	
	May be fatal if swallowed. Poison by ingestion. May cause kidney damage. May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract. Can cause nervous system damage.	
Inhalation	May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. May cause effects similar to those described for ingestion.	
Chronic:	Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion. Prolonged or repeated exposure may cause adverse reproductive effects. May cause fetal effects.	
Section 4 - First Aid Measures		
Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.	
Skin:	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.	
	Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give	

Ingestion:	anything by mouth to an unconscious person. Get medical aid immediately.	
Inhalation:	Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.	
Notes to Physician:		
Antidote:	The use of Dimercaprol or BAL (British Anti-Lewisite) as a chelating agent should be determined by qualified medical personnel.	
	Section 5 - Fire Fighting Measures	
General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Combustion generates toxic fumes.	
Extinguishing Media:	For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.	
Autoignition Temperature:		
Flash	Point: Not available	
Explosion Limits: Lower:		
Explosion Limits: Upper:		
NFPA Rating: health: 3; flammability: 0; instability: 0;		
	Section 6 - Accidental Release Measures	
General Information:	Use proper personal protective equipment as indicated in Section 8.	
Spills/Leaks:	Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.	
	Section 7 - Handling and Storage	
Wasl	n thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate	

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate Handling: ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Store protected from light.

Storage: Do not store in direct sunlight. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Poison room locked.

Chemical Name	+ ACGIH	+	++ OSHA - Final PELs
	- potential significant contribution to	<pre> 0.05 mg/m3 TWA (vapor, except organo alkyls, as Hg) (listed under Mercury compounds).10 mg/m3 IDLH (as Hg, except Organo(alkyl) compounds) (listed under Mercury compounds).</pre>	<pre>Inone listed </pre>

Section 8 - Exposure Controls, Personal Protection

OSHA Vacated PELs: MERCURIC IODIDE: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Exposure Limits

Personal Pro	otective Equipment		
Eyes:	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:	Wear appropriate gloves to prevent skin exposure.		
Clothing:	Wear appropriate protect	ive clothing to prevent skin exposure.	
Respirators:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.		
		Section 9 - Physical and Chemical Properties	
	-	Physical State: Solid	
		Color: red	
		Odor: none reported	
		pH: Not available	
		Vapor Pressure: Not available	
		Vapor Density: Not available	
		Evaporation Rate: Not available	
		Viscosity: Not available	
		Boiling Point: 350 deg C (662.00°F)	
		Freezing/Melting Point: 259 deg C (498.20°F)	
	Decon	nposition Temperature: Not available	
		Solubility in water: Insoluble in water.	
	SI	pecific Gravity/Density: 6.3600	
		Molecular Formula: HgI2	
		Molecular Weight: 454.399	
		Section 10 - Stability and Reactivity	
Chemical Sta	bility:	Stable under normal temperatures and pressures.	
Conditions to	Avoid:	High temperatures, incompatible materials, light, dust generation, excess heat.	
Incompatibili	ties with Other Materials	Not available	
Hazardous D	ecomposition Products	Hydrogen iodide, mercury/mercury oxides.	
Hazardous Po	olymerization	Has not been reported.	
		Section 11 - Toxicological Information	
RTECS#:	CAS# 7774-29-0: RTECS:	OW5250000	
LD50/LC50:	CAS# 7774-29-0: Oral, mouse: LD50 = 17 mg/kg; Oral, rat: LD50 = 18 mg/kg; Skin, rat: LD50 = 75 mg/kg;		
Carcinogenici	ty: MERCURIC IODII	DE - IARC: Group 3 (not classifiable) (Mercury inorganic compounds).	
Other:	•	TECS for complete information.	
		Section 12 - Ecological Information	
Other:	No informatio	-	
	110 miomune	Section 13 - Disposal Considerations	
Dispose of in	a manner consistent with	federal, state, and local regulations.	
Dispose of m			
IS DOT hipping Name: azard Class: 6. N Number: UI acking Group: 2 anada TDG	N1638	Section 14 - Transport Information	

Shipping Name: MERCURY IODIDE Hazard Class: 6.1 UN Number: UN1638 Packing Group: II

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T+ N

Risk Phrases:

R 26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

R 33 Danger of cumulative effects.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 13 Keep away from food, drink and animal feeding stuffs.

S 28 After contact with skin, wash immediately with ...

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 7774-29-0: 3

Canada

CAS# 7774-29-0 is listed on Canada's DSL List

Canadian WHMIS Classifications: D1A, D2B

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

CAS# 7774-29-0 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 7774-29-0 is listed on the TSCA Inventory.

REVIEWED

Section 16 - Other Information MSDS Creation Date: 12/12/1997 Revision #7 Date 7/20/2009

DATE: July 18/2012 Churchenforg

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
