

Material Safety Data Sheet Silver Iodide

MSDS# 20805

MSDS Name:

Section 1 - Chemical Product and Company Identification Silver Iodide

Catalog Numbers:	S178-100
Synonyms:	None
Company Identification:	Fisher Scientific 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

None listed

Section 2 - Composition, Information on Ingredients

CAS#:	7783-96-2
Chemical Name:	Silver Iodide
%:	>98
EINECS#:	232-038-0

Hazard Symbols: Risk Phrases:

Potential Health Effects

None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Caution! Light sensitive. The toxicological properties of this material have not been fully investigated. May cause eye and skin irritation. May cause reproductive and fetal effects. May cause respiratory and digestive tract irritation. Target Organs: Thyroid.

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	Eye:	May cause eye irritation.				
	Skin:	May cause skin irritation. Can cause eczema and rash.				
	Ingestion:	May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated. Chronic ingestion of iodides during pregnancy has resulted in fetal death, severe goiter, and cretinoid appearance of the newborn.				
	Inhalation:	May cause respiratory tract irritation. May cause effects similar to those described for ingestion. The toxicological properties of this substance have not been fully investigated.				
	Chronic:	 Chronic inhalation or ingestion of silver salts may cause argyria characterized by a permanent blue-gray discoloration of the eyes, skin, mucous membranes, and internal organs. This malady results from the accumulation of silver in the body. Chronic ingestion of iodides during pregnancy has resulted in fetal death, severe goiter, and cretinoid appearance of the newborn. Prolonged exposure to iodides may produce iodism is sensitive individuals. Symptoms could include skin rash, running nose and headache. 				
Section 4 - First Aid Measures						
	Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.				
	Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.				
	Ingestion:	Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.				

Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.			
Notes to Physician:	Treat symptomatically and supportively.			
	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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Non-combustible, substance itself does not burn but may decompose upon heating to produce irritating, corrosive and/or toxic fumes.			
Extinguishing Media:	Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.			
Autoignition Temperature:				
Flash Poi	nt: Not applicable.			
Explosion Limits: Lower:				
Explosion Limits: Upper:				
NFPA Ratir	g: health: 1; flammability: 0; instability: 0;			
	Section 6 - Accidental Release Measures			
General Information:	Use proper personal protective equipment as indicated in Section 8.			
Spills/Leaks:	Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.			
	Section 7 - Handling and Storage			
Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate Handling: ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Store protected from light.				
Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from light.				
Section 8 - Exposure Controls, Personal Protection				
	+ l Name ACGIH NIOSH OSHA - Final PELs			

OSHA Vacated PELs: Silver Iodide: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective 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 protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Color: light yellow

		Odor: none reported	
		pH: Not available	
		Vapor Pressure: Negligible.	
		Vapor Density: Not available	
		Evaporation Rate: negligible	
		Viscosity: Not available	
		Boiling Point: Not applicable.	
	Fre	eezing/Melting Point: 552.2 deg C (1,025.96°F)	
	Decomp	osition Temperature: Not available	
		Solubility in water: Slightly soluble in water.	
	Spec	cific Gravity/Density: 5.68 @ 30°C	
	1	Molecular Formula: AgI	
		Molecular Weight: 234.7727	
		Section 10 - Stability and Reactivity	
Chemical Stability:		Stable under normal temperatures and pressures.	
Conditions to Avoi		High temperatures, incompatible materials, light, dust generation.	
Incompatibilities w	vith Other Materials	Strong oxidizing agents.	
Hazardous Decom	position Products	Strong oxidizing agents, hydrogen iodide.	
Hazardous Polyme	-	Has not been reported.	
2		Section 11 - Toxicological Information	
RTECS#:	CAS# 7783-96-2: V		
LD50/LC50:	RTECS: Not available.		
Carcinogenicity:			
Other:			
	5	Section 12 - Ecological Information	
Not available			
		Section 13 - Disposal Considerations	
Dispose of in a manner consistent with federal, state, and local regulations.			
1		Section 14 - Transport Information	
US DOT			
	regulated as a hazardou	us material	
Hazard Class:			
UN Number:			
Packing Group: Canada TDG			
Shipping Name: Not a	available		
Hazard Class:			
UN Number:			
Packing Group:			
		Section 15 - Regulatory Information	
European/Internation	onal Regulations		

European Labeling in Accordance with EC Directives

Hazard Symbols:Not available

Risk Phrases:

Safety Phrases:

S 28A After contact with skin, wash immediately with plenty of water.

S 37 Wear suitable gloves.

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

possible).

WGK (Water Danger/Protection)

CAS# 7783-96-2: 1

Canada

CAS# 7783-96-2 is listed on Canada's DSL List

Canadian WHMIS Classifications: Not controlled.

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# 7783-96-2 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 7783-96-2 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 9/02/1997

Revision #8 Date 7/20/2009

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.
