SIGMA-ALDRICH

Material Safety Data Sheet

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1. PRODUCT AND COMPANY IDENTIFICATION Product name Mercury(I) iodide 2 Product Number : 83375 Brand Fluka : : Sigma-Aldrich Company 3050 Spruce Street SAINT LOUIS MO 63103 USA Telephone : +18003255832 Fax : +18003255052 Emergency Phone # : (314) 776-6555 2. COMPOSITION/INFORMATION ON INGREDIENTS Formula : Hg2l2 Molecular Weight 654.99 g/mol 1 CAS-No. EC-No. Concentration Index-No. **Dimercury diiodide** 15385-57-6 239-409-6 080-002-00-6 -**3. HAZARDS IDENTIFICATION Emergency Overview OSHA Hazards**

Target Organ Effect, Highly toxic by inhalation, Highly toxic by ingestion, Highly toxic by skin absorption

Target Organs

Kidney, Gastrointestinal tract, Nerves.

HMIS Classification		
Health Hazard:	4	
Chronic Health Hazar	d: *	
Flammability:	0	
Physical hazards:	0	
NFPA Rating		
Health Hazard:	4	
Fire:	0	
Reactivity Hazard:	0	
Potential Health Effects		
Inhalation	May be fatal if inhaled. May cause respiratory tract irritation.	
Skin	May cause skin irritation. May be fatal if absorbed through skin.	
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May cause eye irritation. May be fatal if swallowed.

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point not applicable

Ignition temperature no data available

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

The product itself does not burn.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage

Keep container tightly closed in a dry and well-ventilated place.

Light sensitive. Keep in a dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis		
Dimercury diiodide	15385-57-6	CEIL	0.1 mg/m3	1989-03-01	US. Department of Labor - Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1000 Z-1-A		
Remarks		Skin contact does contribute to exposure. See Table Z-2.					
		TWA	0.03 mg/m3	1994-09-01	US. American Conference of Governmental and Industrial Hygienists Threshold Limit Values for Chemical Substances in the Work Environment; Annual Reports for the Year 2004:Committees on Threshold Limit Values (TLVs) and Biological Exposure Indices (BEIs)		
	circumstance 1994-1995 A Substances f	Skin contact does contribute to exposure. The agent (mixture, or exposure circumstance) is not classifiable as to its carcinogenicity to humans . 1994-1995 Adoption Substances for which there is a Biological Exposure Index or Indices. Refers to Appendix A Carcinogens.					

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves.

Eye protection

Safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form

Fluka - 83375

powder

Colour	dark yellow
Safety data	
рН	no data available
Melting point	no data available
Boiling point	no data available
Flash point	not applicable
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	7.7 g/mL at 25 °C (77 °F)
Water solubility	no data available

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid

acids, Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Iodine, Hydrogen iodide

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs and Symptoms of Exposure

prolonged or repeated exposure can cause:, Neurotoxic effects., Dizziness, Nausea, Vomiting, Diarrhoea, Exposure to mercury compounds can cause:, Tremors, loss of appetite, anuria, uremia, weight loss, Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration.

Potential Health Effects

Inhalation	May be fatal if inhaled. May cause respiratory tract irritation.
Skin	May cause skin irritation. May be fatal if absorbed through skin.
Eyes	May cause eye irritation.
Ingestion	May be fatal if swallowed.
Target Organs	Kidney, Gastrointestinal tract, Nerves.,

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN-Number: 1638 Class: 6.1 Packing group: II Proper shipping name: Mercury iodide Marine pollutant: Marine pollutant Poison Inhalation Hazard: No

IMDG

UN-Number: 1638 Class: 6.1 Packing group: II Proper shipping name: MERCURY IODIDE Marine pollutant: Marine pollutant

ΙΑΤΑ

UN-Number: 1638 Class: 6.1 Packing group: II Proper shipping name: Mercury iodide, solid

15. REGULATORY INFORMATION

EMS-No: F-A, S-A

DSL Status		
This product contains the following components that are not on the Canadi	ian DSL nor NDSL lis	te
This product contains the following components that are not on the Canadi	CAS-No.	0.5.
Dimercury diiodide	15385-57-6	
SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requir	rements of SARA Title	e III, Section 302.
SARA 313 Components		
·	CAS-No.	Revision Date
Dimercury diiodide	15385-57-6	1987-01-01
SARA 311/312 Hazards		
Acute Health Hazard, Chronic Health Hazard		
Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act.		
Pennsylvania Right To Know Components		
	CAS-No.	Revision Date
Dimercury diiodide	15385-57-6	1987-01-01
New Jersey Right To Know Components		
	CAS-No.	Revision Date
Dimercury diiodide	15385-57-6	1987-01-01
California Prop. 65 Components		
WARNING! This product contains a chemical known in the State of	CAS-No.	Revision Date
California to cause birth defects or other reproductive harm.	15385-57-6	1990-07-01

16. OTHER INFORMATION

Further information

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