SIGMA-ALDRICH

Material Safety Data Sheet

Version 3.4 Revision Date 02/07/2008 Print Date 08/31/2011

Product name	: Copper(I) iodid	е		
Product Number	: 205540			
Brand	: Sigma-Aldrich			
-	-			
Company	: Sigma-Aldrich 3050 Spruce Stree	at		
	SAINT LOUIS MC			
	USA			
Telephone	: +1 800-325-5832			
Fax	: +1 800-325-5052			
Emergency Phone #	: (314) 776-6555			
OMPOSITION/INFORM	ATION ON INGREDIENTS			
Synonyms	: Cuprous iodide			
Formula	: Cul			
Molecular Weight	: 190.44 g/mol			
CAS-No.	EC-No.	Index-No.	Concentration	7
	20110.	indox ito:	Concontration	
Copper iodide 7681-65-4	004 074 0			-
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May cause eye irritation. Harmful 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. 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 no data available

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

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

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

Contains no substances with occupational exposure limit values.

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. 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

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

	Form	powder
	Colour	brown
	Odour	odourless
Sa	afety data	
	рН	no data available
	Melting point	605 °C (1,121 °F)
	Boiling point	1,290 °C (2,354 °F)
	Flash point	no data available
	Ignition temperature	no data available
	Lower explosion limit	no data available
	Upper explosion limit	no data available
	Vapour pressure	13 hPa (10 mmHg) at 656 °C (1,213 °F)
Density		5.620 g/cm3 at 20 °C (68 °F)
	Water solubility	insoluble

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions. Decomposes on exposure to light.

Materials to avoid

Oxidizing agents, Potassium, Alkali metals

Hazardous decomposition products

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

11. TOXICOLOGICAL INFORMATION		
0:	Sigma-Aldrich Corporation	

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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

- 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

Symptoms of systemic copper poisoning may include: capillary damage, headache, cold sweat, weak pulse, and kidney and liver damage, central nervous system excitation followed by depression, jaundice, convulsions, paralysis, and coma. Death may occur from shock or renal failure. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in the cornea as exemplified by humans with Wilson's disease. It has also been reported that copper poisoning has lead to hemolytic anemia and accelerates arteriosclerosis., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	Harmful if swallowed.
Target Organs	Liver,

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

Toxicity to fish LC50 - Brachydanio rerio (zebra fish) - 0.4 mg/l - 96 h

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.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

UN-Number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper iodide) Marine pollutant: No

IATA

UN-Number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid n.o.s. (Copper iodide)

15. REGULATORY INFORMATION

OSHA Hazards

Target Organ Effect, Harmful by ingestion., Irritant

TSCA Status On TSCA Inventory

DSL Status

All components of this product are on the Canadian DSL list.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components		
Copper iodide	CAS-No. 7681-65-4	Revision Date 1987-01-01
SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard		
Massachusetts Right To Know Components No Components Listed		
Pennsylvania Right To Know Components		
	CAS-No.	Revision Date
Copper iodide	7681-65-4	1987-01-01
New Jersey Right To Know Components		
	CAS-No.	Revision Date
Copper iodide	7681-65-4	1987-01-01
California Prop. 65 Components	4	

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Further information

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