

Section 1 - Chemical Product and Company Identification

MSDS Name: Copper(I) iodide  
Catalog Numbers: C/8800/48  
Synonyms: None known.  
Company Identification: Fisher Scientific UK  
Bishop Meadow Road, Loughborough  
Leics. LE11 5RG  
For information in Europe, call: (01509) 231166  
Emergency Number, Europe: 01509 231166

Section 2 - Composition, Information on Ingredients

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CAS#: 7681-65-4  
Chemical Name: Copper(I) iodide  
%: 98  
EINECS#: 231-674-6  
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Hazard Symbols:

XN N



Risk Phrases:

22 36/37/38 50/53

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Harmful if swallowed. Causes eye, skin, and respiratory tract irritation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Target Organs: Respiratory system, eyes, skin.

Potential Health Effects

Eye: Causes eye irritation.  
Skin: Causes skin irritation. May be harmful if absorbed through the skin.  
Ingestion: Harmful if swallowed. May cause irritation of the digestive tract.  
Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.  
Chronic: No information found.

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.  
Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Ingestion: Do not induce vomiting. Get medical aid immediately. Call a poison control center.  
Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to  
Physician:

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.

Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

NFPA Rating: health: 2; flammability: 0; instability: 1;

#### 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 generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

#### Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

Storage: Store in a cool, dry place. Do not store in direct sunlight. Store in a tightly closed container.

#### Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Copper(I) iodide	none listed	1 mg/m3 TWA (dust and mist, as Cu, except copper fume) (listed under Copper compounds, n.o.s.).100 mg/m3 IDLH (dust and mist, as Cu) (listed under Copper compounds, n.o.s.).	none listed

OSHA Vacated PELs: Copper(I) 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: off-white - white - grey - brown

Odor: odorless

pH: Not available

Vapor Pressure: 10 mm Hg @ 656 deg C

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 1290 deg C @ 760 mmHg ( 2,354.00°F)

Freezing/Melting Point: 605 deg C ( 1,121.00°F)

Decomposition Temperature: Not available

Solubility in water: Insoluble

Specific Gravity/Density: Not available.

Molecular Formula: CuI

Molecular Weight: 190.45

#### Section 10 - Stability and Reactivity

Chemical Stability:	Light sensitive.
Conditions to Avoid:	Incompatible materials, light, dust generation, excess heat.
Incompatibilities with Other Materials	Strong oxidizing agents, alkali metals, potassium.
Hazardous Decomposition Products	Hydrogen iodide, iodine, oxides of copper.
Hazardous Polymerization	Has not been reported.

#### Section 11 - Toxicological Information

RTECS#:	CAS# 7681-65-4: None listed
LD50/LC50:	RTECS: Not available. Other: Oral LD50 (rat): 1600
Carcinogenicity:	Copper(I) iodide - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:	The toxicological properties have not been fully investigated.

#### Section 12 - Ecological Information

Other:	Do not empty into drains.
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#### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

#### Section 14 - Transport Information

US DOT

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.

Hazard Class: 9

UN Number: UN3077

Packing Group: III

Canada TDG

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOL

Hazard Class: 9

UN Number: UN3077

Packing Group: III

#### Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN N

Risk Phrases:

R 22 Harmful if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

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

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 29 Do not empty into drains.

S 37/39 Wear suitable gloves and eye/face protection.

S 57 Use appropriate containment to avoid environmental contamination.

WGK (Water Danger/Protection)

CAS# 7681-65-4: 2

Canada

CAS# 7681-65-4 is listed on Canada's DSL List

Canadian WHMIS Classifications: D1B, 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# 7681-65-4 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 7681-65-4 is listed on the TSCA Inventory.

#### Section 16 - Other Information

MSDS Creation Date: 7/07/1998

Revision #6 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 merchantability 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.

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