



Material Safety Data Sheet

Product Name: Copper Iodide

Section 1-Product Information

Formula : CuI
Molecular weight : 190.4505
CAS No : 7681-65-4
HS Code : 28276000
Synonym's : None

Section 2-Composition, Information on Ingredients

Ingredient : Copper Iodide
Hazardous : Yes
Percent : 98%
EINECS/ELINCS : 231-674-6
Appearance : White to gray beige

Section 3-Hazards Identification

Emergency Overview

Caution! Causes eye and skin irritation. The toxicological properties of this material have not been fully investigated. Light sensitive. Harmful if swallowed. Causes respiratory tract irritation. May cause respiratory tract irritation. May cause digestive tract irritation.

Target organs: None

Potential Health Effects

Eye contact : Causes eye irritation.

Skin contact: Causes skin irritation.

Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated. May be harmful if swallowed.

Inhalation: Dust is irritating to the respiratory tract.

Chronic Exposure: No information found.

Section 4-First Aid Measure

Eyes: 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. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Remove to fresh air. 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 procedure

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. Substance is noncombustible. May form very sensitive, explosive metallic compounds.

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

Section 6-Accidental Release Measure

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. Reduce airborne dust and prevent scattering by moistening with water. Clean up spills immediately, observing precautions in the protective equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7-Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

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.

Section 8-Exposure control/Personal protection

Engineering controls: Use adequate ventilation to keep airborne concentrations low.

Exposure limits:

ACGIH: None listed

NIOSH: None listed

OSHA – Final PELs: None listed

OSHA Vacated PELs: Copper (I) iodide: No OSHA Vacated PELs are listed for this chemical.

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: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.



Section 9-Physical Chemical Properties

Physical State	: Solid
Appearance	: white to gray-beige
Odor	: Not available.
pH	: Not available.
Vapor Pressure	: 10 mm Hg
Vapor Density	: Not available.
Evaporation Rate	: Not available.
Viscosity	: Not available.
Boiling Point	: 1290 °C
Freezing/Melting Point	: 605 °C
Autoignition Temperature	: Not applicable.
Flash Point	: Not applicable.
Decomposition Temperature	: Not available.
NFPA Rating	: (estimated) Health: 1; Flammability: 0; Reactivity: 1
Explosion Limits, Lower	: Not available.
Upper	: Not available.
Solubility	: Insoluble in water.
Specific Gravity/Density	: 5.6200
Molecular Formula	: CuI
Molecular Weight	: 190.4505

Section 10-Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: High temperatures, incompatible materials, light, dust generation.

Incompatibilities with Other Materials: Oxidizing agents, alkali metals, potassium, acetylene.

Hazardous Decomposition Products: Hydrogen iodide, iodine.

Hazardous Polymerization: Will not occur.

Section 11-Toxicity Information

RTECS#:

CAS# 7681-65-4 unlisted.

LD50/LC50: Not available.

Carcinogenicity: CAS# 7681-65-4: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Neurotoxicity: No data available.

Mutagenicity: No data available.

Other Studies: No data available.



Section 12-Ecological Information

No information found

Section 13-Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14-Transport Information

Shipping Name: No information available.

Hazard Class: 6.1

UN Number: UN2074

Packing Group: III

Section 15-Regulatory Information

US FEDERAL

TSCA

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

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

Section 313

This material contains Copper(I) iodide (listed as ** undefined **), 98 0%, (CAS# 7681-65-4) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part373.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

**Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 7681-65-4 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations**European Labeling in Accordance with EC Directives**

Hazard Symbols: XI

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

Safety Phrases: S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection): CAS# 7681-65-4: 2

Canada

CAS# 7681-65-4 is listed on Canada's DSL List. CAS# 7681-65-4 is listed on Canada's DSL List. This product has a WHMIS classification of D2B.

CAS# 7681-65-4 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 7681-65-4 (listed as ** undefined **): OEL-ARAB Republic of Egypt :TWA 0.1 mg/m³ (fume) OEL-AUSTRALIA:TWA 0.2 mg/m³ (fume) OEL-AUSTRALIA:TWA 1 mg/m³ (dust) OEL-BELGIUM:TWA 0.2 mg/m³ (fume) OEL-BELGIUM:TWA 1 mg/m³ (dust) OEL-DENMARK:TWA 0.1 mg/m³ (fume) OEL-DENMARK:TWA 1 mg/m³ (dust) OEL-FINLAND:TWA 0.2 mg/m³ (fume) OEL-FINLAND:TWA 1 mg/m³ (dust) OEL-FINLAND:TWA 1 mg/m³ (dust) OEL-FRANCE:TWA 0.2 mg/m³ (fume) OEL-FRANCE:TWA 1 mg/m³;STEL 2 mg/m³ (dust) OEL-GERMANY:TWA 0.1 mg/m³ (fume) OEL-GERMANY:TWA 1 mg/m³ (dust) OEL-HUNGARY:TWA 0.2 mg/m³;STEL 0.4 mg/m³ (dust) OEL-INDIA:TWA 0.2 mg/m³ (fume) OEL-THE NETHERLANDS:TWA 0.2 mg/m³ (fume) OEL-THE NETHERLANDS:TWA 1 mg/m³ (dust) OEL-THE PHILIPPINES:TWA 1.0 mg/m³ (fume) OEL-POLAND:TWA 0.1 mg/m³ (fume) OEL-RUSSIA:STEL 0.5 ppm (1 mg/m³) (dust) OEL-SWEDEN:TWA 0.2 mg/m³ (resp. dust) OEL-SWEDEN:TWA 0.2 mg/m³ (fume) OEL-SWEDEN:TWA 1 mg/m³ (total dust) OEL-SWITZERLAND:TWA 0.1 mg/m³;STEL 0.2 mg/m³ (fume) OEL-SWITZERLAND:TWA 1 mg/m³;STEL 1 mg/m³ OEL-THAILAND:TWA 0.1 mg/m³ (fume) OEL-THAILAND:TWA 1 mg/m³ OEL-UNITED KINGDOM:TWA 0.2 mg/m³ (fume) OEL-UNITED KINGDOM:TWA 1 mg/m³ OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEAL

Section 16-Additional Information**Disclaimer:**

Pantheon Fze provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, PANTHEON FZE WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.