

# SAFETY DATA SHEET

Creation Date 22-Jan-2015

Revision Date 30-Apr-2019

**Revision Number** 3

1. Identification

Product	Name
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Copper(I) iodide

## Cat No. : 43153

CAS-No	7681-65-4		
Synonyms	No information available		
Recommended Use	Laboratory chemicals.		
Uses advised against	Food, drug, pesticide or biocidal product use		

#### Details of the supplier of the safety data sheet

## <u>Company</u>

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

### **Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

## 2. Hazard(s) identification

Category 4 Category 2 Category 1 Category 1A Category 1

### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity
Skin Corrosion/irritation
Serious Eye Damage/Eye Irritation
Skin Sensitization
Specific target organ toxicity - (repeated exposure)
Target Organs - Thyroid.

Label Elements

Signal Word Danger

Hazard Statements Harmful if swallowed Causes skin irritation May cause an allergic skin reaction Causes serious eye damage Causes damage to organs through prolonged or repeated exposure



#### Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Contaminated work clothing should not be allowed out of the workplace

Do not breathe dust/fume/gas/mist/vapors/spray

## Response

Get medical attention/advice if you feel unwell

### Skin

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

#### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Very toxic to aquatic life

Toxic to aquatic life with long lasting effects

## 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Copper iodide (Cul)	7681-65-4	<=100

4. First-aid measures				
If symptoms persist, call a physician.				
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.				
Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.				
Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.				
Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.				

Most important symptoms and effects Notes to Physician	s reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing			
	5. Fire-fightin	g measures		
Suitable Extinguishing Media	Use water spray, alcohol-re	sistant foam, dry chemical or ca	arbon dioxide.	
Unsuitable Extinguishing Media	No information available			
Flash Point Method -	No information available No information available			
Autoignition Temperature Explosion Limits	No information available			
Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available			
Specific Hazards Arising from the C Thermal decomposition can lead to re sources of ignition. Do not allow run-c	lease of irritating gases and v		y container away from heat and	
Hazardous Combustion Products Copper oxides Hydrogen iodide Protective Equipment and Precauti As in any fire, wear self-contained bre protective gear.		emand, MSHA/NIOSH (approve	d or equivalent) and full	
<u>NFPA</u> Health 3	Flammability 0	Instability 1	Physical hazards N/A	
	6. Accidental rel	ease measures		
Personal Precautions Environmental Precautions	Use personal protective equipo not flush into surface was contaminate ground water s	uipment. Ensure adequate venti uter or sanitary sewer system. D system. Prevent product from er		
Methods for Containment and Clea Up	n Sweep up or vacuum up sp suitable, closed containers		ntainer for disposal. Keep in	
	7. Handling a	and storage		
Handling		quipment. Ensure adequate ver on. Do not get in eyes, on skin,		
Storage	Keep in a dry, cool and wel from direct sunlight.	-ventilated place. Keep contain	er tightly closed. Keep away	
8. E	xposure controls /	personal protectio	n	
Exposure Guidelines				

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Copper iodide (Cul)	TWA: 1 mg/m <sup>3</sup> TWA: 0.01		IDLH: 100 mg/m <sup>3</sup>	
	ppm		TWA: 1 mg/m <sup>3</sup>	

### <u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	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 and body protection	Long sleeved clothing.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Beige
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	605 °C / 1121 °F
Boiling Point/Range	1290 °C / 2354 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	10 mmHg @ 656 °C
Vapor Density	Not applicable
Density	5.62 g/cm3 @ 20 °C
Specific Gravity	No information available
Bulk Density	&1.000 - 1.400 kg/m <sup>3</sup>
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Cul
Molecular Weight	190.45

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Light sensitive.	
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to light.	

Incompatible Materi	als	Oxidizing agents, Strong acids, Alkali metals					
Hazardous Decomp	osition Products	<b>s</b> Copper oxides, Hy	drogen i	iodide			
Hazardous Polymer	ization	No information ava	ailable.				
Hazardous Reaction	ıs	None under norma	l proces	sing.			
		11. Toxico	ologio	cal info	ormation		
Acute Toxicity							
Product Informatior Component Information							
Componen		LD50 Oral			LD50 Dermal	LC50	Inhalation
Copper iodide		300 - 2000 mg/kg			) mg/kg (OECD 402)		ot listed
Toxicologically Syn		No information ava	ailable			•	
Products	5						
Delayed and immed	iate effects as w	ell as chronic effe	cts fron	n short ar	d long-term exposi	ıre	
					·····		
Irritation		Irritating to skin					
Sensitization		May cause sensitiz	zation by	/ skin cont	act		
Carcinogenicity		The table below inc	dicates	whether e	ach agency has listed	d any ingredient	as a carcinogen.
Component	CAS-No	IARC	N	ITP	ACGIH	OSHA	Mexico
Copper iodide (Cul)	7681-65-4	Not listed	Not	listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava					
Reproductive Effect	s	No information ava	ailable.				
Developmental Effe	cts	No information available.					
Teratogenicity		No information available.					
STOT - single expos STOT - repeated exp		None known Thyroid					
Aspiration hazard		No information available					
Symptoms / effects delayed	,both acute and	d Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing					

Endocrine Disruptor Information No information available

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#### Other Adverse Effects

# 12. Ecological information

#### Ecotoxicity

The product contains following substances which are hazardous for the environment. Very toxic to aquatic organisms. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea	
Copper iodide (Cul)	EC50 = 0.13 mg/l (72h) green algae (OECD 201)	LC50 = 1.67 mg/l (96h) Oncorhynchus mykiss	EC50 = 280 mg/L (3h) Activated sludge (OECD 209)	EC50 = 0.59 mg/l (48h) Daphnia magna	
Persistence and Degradability Insoluble in water May persist					

**Bioaccumulation/ Accumulation** No information available.

#### Mobility

Is not likely mobile in the environment due its low water solubility.

## 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport information

DOT				
UN-No	UN3077			
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.			
Proper technical name	Copper iodide (Cul)			
Hazard Class	9			
Packing Group				
TDG				
UN-No	UN3077			
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.			
Hazard Class	9			
Packing Group				
UN-No	UN3077			
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.			
Hazard Class	9			
Packing Group				
IMDG/IMO				
UN-No	UN3077			
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.			
Hazard Class	9			
Packing Group				
15. Regulatory information				

## United States of America Inventory

С	omponent	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Copp	er iodide (Cul)	7681-65-4	Х	ACTIVE	-

Legend:

**TSCA** - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Copper iodide (Cul)	7681-65-4	Х	-	231-674-6	Х	Х	Х	Х	KE-08941
									97-3-718

### U.S. Federal Regulations

#### SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Copper iodide (Cul)	7681-65-4	<=100	1.0

#### SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Haz Substar		- Reportable luantities	CWA - Toxic Pollutants	CWA - Priority Pollutants			
Copper iodide (Cul)	-		-	Х	-			
Clean Air Act	Not app	Not applicable						
<b>OSHA</b> - Occupational Safety Health Administration	and Not app	Not applicable						
CERCLA	Not app	Not applicable						
California Proposition 65	This pro	oduct does not cont	ain any Proposit	ion 65 chemicals				
U.S. State Right-to-Know Regulations								
Component	Massachusetts	New Jersey	Pennsylva	nia Illinois	Rhode Island			
Copper iodide (Cul)	-	Х	Х	-	-			
U.S. Department of Transpo								
Reportable Quantity (RQ): DOT Marine Pollutant	N	N						
DOT Severe Marine Pollutant								
U.S. Department of Homela Security	nd This pro	This product does not contain any DHS chemicals.						
Other International Regulat	<u>ions</u>							
Mexico - Grade	No info	No information available						

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Creation Date Revision Date Print Date	22-Jan-2015 30-Apr-2019 30-Apr-2019

Revision Summary

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

SDS authoring systems update, replaces ChemGes SDS No. 7681-65-4.

# End of SDS