



1 Identification Product identifier

Product name: Copper wire

Stock number: 42979 CAS Number: 7440-50-8 EC number: 31-159-6 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. Inerrito Fisher Scheman C. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech @alfa.com www.alfa.com Information Department: Health, Safety and Environmental Department 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

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.

I abel elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)



Health (acute effects) = 0Flammability = 0 Physical Hazard = 0

Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances CAS# Description: 440-50-8 Copper Identification number(s): EC number: 231-159-6

4 First-aid measures

Description of first aid measures General information No special measures required. After inhalation Seek medical treatment in case of complaints. After skin contact Generally the product does not irritate the skin. After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After eye contact Rinse opened eye for several minutes under running water. It symptoms persist, consult a doctor. After swallowing if symptoms persist consult doctor. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media Suitable extinguishing agents Special powder for metal fires. Do not use water. For safety reasons unsuitable extinguishing agents Water Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Copper oxides Advice for firefighters Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required. Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Pick up mechanically. **Revenues and material for containing and cleaning up**. Fick up **Prevention of secondary hazards:** No special measures required. **Reference to other sections** See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

USA

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7 Handling and storage		
Handling		
Precautions for safe handling Keep container tightly sealed.		
Store in cool, dry place in tightly closed	d containers. st explosions and fires: No special measures required.	
Conditions for safe storage, includin	• • • •	
Storage		
Requirements to be met by storeroo	oms and receptacles: No special requirements. Common storage facility: No information known.	
Further information about storage c	conditions:	
Keep container tightly sealed. Store in cool, dry conditions in well sea	aled containers	
Specific end use(s) No further releval	nt information available.	
8 Exposure controls/personal pro	otection	
Additional information about design	n of technical systems: No further data; see section 7.	
Control parameters		
Components with limit values that re	equire monitoring at the workplace:	
7440-50-8 Copper (100.0%) PEL (USA) Long-term value: 1* 0.1*	** ma/m³	
` as Ču *dusts and mists *	**fume	
REL (USA) Long-term value: 1* 0.1* as Cu *dusts and mists	** mg/m ³ **fume	
TLV (USA) Long-term value: 1* 0.2*		
*dusts and mists; **fume	e; aš Cu	
EL (Canada) Long-term value: 1* 0.2* *dusts and mists; **fume	e mg/m ³	
EV (Canada) Long-term value: 0.2* 1*	** ma/m³	
as copper, *fume;**dust	and mists	
Additional information: No data		
Exposure controls Personal protective equipment		
General protective and hygienic mea	asures	
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Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: No information known.

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Hazardous decomposition products: Copper oxides	(Contd. of page 2)
11 Toxicological information	
Information on toxicological effects	
Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification:	
Oral LD/LC50 values that are relevant for classification:	
Skin irritation or corrosion: No irritant effect.	
Eye irritation or corrosion: No irritant effect. Sensitization: No sensitizing effects known.	
Germ cell mutagenicity: No effects known	
Carcinogenicity: EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available. The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance. Reproductive toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.	
The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance. Reproductive toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.	
Specific target organ system toxicity - repeated exposure: No effects known	
Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known.	
Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
12 Ecological information Toxicity	
Aquatic toxicity: No further relevant information available.	
Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available.	
Mobility in soil No further relevant information available. Additional ecological information:	
General notes:	
Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment. Results of PBT and vPvB assessment	
PBT: Not applicable.	
vPvB: Not applicable. Other adverse effects No further relevant information available.	
13 Disposal considerations	
Waste treatment methods	
Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings:	
Recommendation: Disposal must be made according to official regulations.	
14 Transport information	
UN-Number	
DOT, ADN, IMDG, IATA Not applicable	
DOT, A'DN, IMD'G, IATA Not applicable	
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA	
Class Not applicable	
Packing group DOT, IMDG, IATA Not applicable	
Environmental hazards: Not applicable.	
Special precautions for user Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	
DOT Marine Pollutant (DOT): No	
UN "Model Regulation": -	
15 Regulatory information	
Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable	
Hazard pictograms Not applicable	
Signal word Not applicable Hazard statements Not applicable	
National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.	
All components of this product are listed on the Canadian Domestic Substances List (DSL).	
SARA Section 313 (specific toxic chemical listings) 7440-50-8 Copper	
California Proposition 65	
Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed.	
Prop 65 - Developmental toxicity, temale Substance is not listed	
Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals.	
Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.	
	(Contd. on page 4)

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The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
market and use must be observed.
Substance is not listed.
Annex XVI of the REACH Regulations (requiring Authorisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.