

SAFETY DATA SHEET

Issuing Date 17-Jul-2012 Revision Date 21-Oct-2021 Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Copper Magnet Wire

Other means of identification

COPPER MAGNET WIRE EU Product Code(s)

Magnet Wire **Synonyms**

Recommended use of the chemical and restrictions on use Electrical Conductor. **Recommended Use** Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address Essex Energy Via Circonvallazione no. 2 Quattordio, AL Italy 15028

Emergency telephone number

Emergency Telephone Chemtrec: 1-800-424-9300 for US/ 001 703-527-3887 outside US

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Varies Physical state solid Odor None

Hazards not otherwise classified (HNOC)

Not Applicable

Other Information

Very toxic to aquatic life with long lasting effects

Very toxic to aquatic life

Unknown acute toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Not Applicable Mixture

Synonyms Magnet Wire.

Chemical name	CAS No	Weight-%	Trade secret
Copper	7440-50-8	90 - 100%	*

4. FIRST AID MEASURES					
Copper	7440-50-8	90 - 100%	*		

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Description of first aid measures

General advice This product is an article as sold. When the material is soldered, welded or hot staked it

may release vapors or fumes from the degradation of the coating. All first aid measures

assume welding or hot staking has occurred.

Exposure to fumes, vapors or smoke from thermally degraded product can cause irritation

to eyes. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

eyelids. Consult a physician.

Skin contact None under normal use.

Inhalation Exposure to fumes, vapors or smoke from thermally degraded product can cause

respiratory system irritation. Some of these component chemicals include low

concentrations of phenol, cresols, and xylene, as well as burnt resinous material. Move

victim to fresh air.

Ingestion Not an expected route of exposure.

Most important symptoms and effects, both acute and delayed

Symptoms

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use water spray, fog, Carbon dioxide (CO₂), foam or dry chemical.

Unsuitable extinguishing media Decomposition by contact with water may generate vapors which can be ignited by heat or

open flame.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containmentPrevent further leakage or spillage if safe to do so.Methods for cleaning upPick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage ConditionsIncompatible materials
Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible with strong acids and bases. Acetylene gas and magnesium.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

	-			
Chemical name ACGIH TLV		OSHA PEL	NIOSH IDLH	
	Copper	TWA: 0.2 mg/m ³ fume	TWA: 0.1 mg/m ³ fume	IDLH: 100 mg/m ³ dust, fume and

7440-50-8	TWA: 1 mg/m ³ dust and mist	mist
	(vacated) TWA: 0.1 mg/m ³ Cu dust,	TWA: 1 mg/m ³ dust and mist
	fume, mist	TWA: 0.1 mg/m³ fume

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Skin and body protection Respiratory protection No special protective equipment required No special protective equipment required.

No protective equipment is needed under normal use conditions. Exposure to fumes,

vapors or smoke from thermally degraded product can cause respiratory system irritation. Some of these component chemicals include low concentrations of phenol, cresols, and xylene, as well as burnt resinous material. At extremely high temperatures toluene

di-isocyante (TDI) may be emitted from certain coated wire. TDI is considered a sensitizer

(based on .?)

and may be a carcinogen. Use only with adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state solid Appearance Varies

Appearance Varies Odor None

ColorNo information availableOdor thresholdNo information available

PropertyValuesRemarks • MethodpHNo information availableNo information available

Melting point / freezing point1080 °C / 1975 °FBoiling point / boiling range2595 °C / 4703 °FFlash pointNo information available

Evaporation rate

Flammability (solid, gas)

No information available
No information available

Flammability Limit in Air

Upper flammability limit:No information availableLower flammability limit:No information availableVapor pressureNo information available

Vapor density 5

Relative density No information available

Water solubility Practically insoluble (~0.4 ug/mL)

Solubility in other solvents No information available **Partition coefficient** No information available No information available **Autoignition temperature Decomposition temperature** No information available Kinematic viscosity No information available No information available **Dynamic viscosity Explosive properties** No information available No information available **Oxidizing properties**

Other Information

Softening point No information available

Molecular weight

VOC Content (%)
Liquid Density
No information available
No information available
No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

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Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

Incompatible with strong acids and bases. Acetylene gas and magnesium.

Hazardous decomposition products

Carbon dioxide (CO₂). Thermal decomposition can lead to release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information At extremely high temperatures toluene di-isocyante (TDI) may be emitted from certain

polyurethane coated wire. TDI is considered a sensitizer and may be a carcinogen.

InhalationThere is no data available for this product.Eye contactThere is no data available for this product.Skin contactThere is no data available for this product.IngestionThere is no data available for this product.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity No information available.
Reproductive toxicity No information available.
Specific target organ toxicity (single No information available.

exposure)

STOT - repeated exposureNo information available.

Chronic toxicity Prolonged exposure to fumes from welding or hot staking may cause chronic effects.

Target organ effects Eyes, Lungs.

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects

2 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Dispose of in accordance with local regulations. Recyclable material. Please send to local

recycling center.

Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

DOT

IATA Not regulated Essex magnet wire (also referred to as 'winding wire') consists of cured

polymer coating applied to copper or aluminum metal conductor. Essex finished magnet wire holds no permanent magnetic field and no substantive electrical charge when

packaged and transported in commerce.

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies DSL/NDSL Complies Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies **KECL PICCS** Complies **AICS** Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

Canadian Inventory Legend

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Copper	7440-50-8	>90	1.0

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper 7440-50-8	-	X	X	-

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Copper 7440-50-8	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania

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Copper 7440-50-8	X	Х	Х
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U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 1 Flammability 0 Instability 0 Physical and chemical

properties -

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HMIS Health hazards 1 Flammability 0 Physical hazards 0 Personal precautions

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Prepared By Robert Distler Issuing Date 17-Jul-2012 Revision Date 21-Oct-2021

Revision Note

15 - Verified most current CA Prop 65 information

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.

End of Safety Data Sheet