

# SAFETY DATA SHEET

### 1. Identification

**Product identifier Copper Turnings** 

Other means of identification

00830 SDS number

**Part Number** 501-621, 502-258, 502-295, 502-656 Recommended use Scientific research and development

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Supplier

Company name **LECO Corporation Address** 3000 Lakeview Avenue St. Joseph, MI 49085

> **United States** 269-983-5531

**Telephone** Website www.leco.com E-mail info@leco.com

**Emergency phone number** Chemtrec: 800-424-9300

Chemtrec Int'l: 703-527-3887

## 2. Hazard(s) identification

Physical hazards Not classified. **Health hazards** Not classified.

**Environmental hazards** Hazardous to the aquatic environment, acute Category 1

Hazardous to the aquatic environment,

Category 1

long-term hazard

Not classified. **OSHA** defined hazards

Label elements



Signal word Warning

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. **Hazard statement** 

**Precautionary statement** 

Avoid release to the environment. Prevention

Response Collect spillage.

Storage Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

## 3. Composition/information on ingredients

**Substances** 

Chemical name	Common name and synonyms	CAS number	%
COPPER		7440-50-8	90 - 100

Material name: Copper Turnings SDS US 1/7 SDS No. 00830 Version #: 02 Revision date: 09-01-2015 Issue date: 12-17-2014

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing

and shoes. Get medical attention if irritation develops and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do.

Rinse mouth thoroughly. Call a physician or poison control center immediately. Ingestion

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Treat symptomatically.

General information If you feel unwell, seek medical advice (show the label where possible).

Skin irritation. Causes eye irritation.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

Water spray. Foam. Dry powder. Carbon dioxide (CO2).

Do not use a solid water stream as it may scatter and spread fire.

Fire may produce irritating, corrosive and/or toxic gases.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

clean-up. Ensure adequate ventilation.

### 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Methods and materials for containment and cleaning up

**Environmental precautions** 

Sweep up or vacuum up spillage and collect in suitable container for disposal.

Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Provide adequate ventilation. Avoid contact with skin. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment.

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during

Conditions for safe storage, including any incompatibilities Store in tightly closed original container in a dry, cool and well-ventilated place.

## 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Material	Туре	Value	Form	
COPPER (CAS 7440-50-8)	PEL	1 mg/m3	Dust and mist.	
		0.1 mg/m3	Fume.	
US. NIOSH: Pocket Guide to Chen	nical Hazards			
Material	Туре	Value	Form	
COPPER (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.	

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Provide adequate ventilation.

SDS No. 00830 Version #: 02 Revision date: 09-01-2015 Issue date: 12-17-2014

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear suitable gloves. Suitable gloves can be recommended by the glove supplier.

Other Wear suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

Physical state Solid.
Form Solid.
Color Copper
Odor Odorless.
Odor threshold Not available.
pH Not available.

Melting point/freezing point 1981.4 °F (1083 °C) estimated / 1981.4 °F (1083 °C)

Initial boiling point and boiling

range

4703 °F (2595 °C)

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

**Density** 8.94 g/cm3 @ 20°C (68°F) estimated

Molecular formula Cu

Molecular weight 63.55 g/mol

10. Stability and reactivity

Reactivity Not available.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

No dangerous reaction known under conditions of normal use.

reactions

Material name: Copper Turnings
SDS No. 00830 Version #: 02 Revision date: 09-01-2015 Issue date: 12-17-2014

**Conditions to avoid**Contact with incompatible materials.

Incompatible materials Acetylene. Sulfur oxides. Acids. Fluorine. Alkalies. Strong oxidizing agents.

**Hazardous decomposition** 

products

Not available.

## 11. Toxicological information

### Information on likely routes of exposure

InhalationMay be harmful if inhaled.Skin contactMay be irritating to the skin.

**Eye contact** Direct contact with eyes may cause temporary irritation.

**Ingestion** May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

## Information on toxicological effects

Acute toxicityNot available.Skin corrosion/irritationNot available.Serious eye damage/eyeNot available.

irritation

Respiratory or skin sensitization

Respiratory sensitizationNot available.Skin sensitizationNot available.Germ cell mutagenicityNot available.

Carcinogenicity

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### US. National Toxicology Program (NTP) Report on Carcinogens

Not available.

Reproductive toxicity Not available.

Specific target organ toxicity - Not classified.

single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Aspiration hazard Not available.

# 12. Ecological information

#### **Ecotoxicity**

Duadical

Proa	uct		Species	lest Results
COP	COPPER (CAS 7440-50-8)			
	Aquatic			
(	Crustacea	EC50	Water flea (Daphnia magna)	0.036 mg/l, 48 hours
F	Fish	LC50	Fathead minnow (Pimephales promelas)	0.0319 - 0.0544 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

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Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

Task Dasulka

## 13. Disposal considerations

**Disposal instructions**Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Not available.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

DOT

**UN** number UN3077

**UN proper shipping name** Environmentally hazardous substances, solid, n.o.s. (COPPER RQ = 5000 LBS)

Transport hazard class(es)

**Class** 9 Subsidiary risk 9 Label(s) Packing group Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

**UN number** UN3077

UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (COPPER)

Transport hazard class(es)

Class 9 Subsidiary risk Packing group Ш **ERG Code** 9L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN number** 

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER)

Transport hazard class(es)

Class 9 Subsidiary risk Packing group Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

### DOT; IATA; IMDG



## 15. Regulatory information

**US federal regulations** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

COPPER (CAS 7440-50-8) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Material name: Copper Turnings 5/7

SDS US

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

## SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
COPPER	7440-50-8	90 - 100	

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Water Act (CWA) Priority pollutant
Section 112(r) (40 CFR Toxic pollutant

68.130)

Safe Drinking Water Act 1.3 mg/l (SDWA) 1.3 mg/l

#### **US** state regulations

# US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

COPPER (CAS 7440-50-8)

### **US. Massachusetts RTK - Substance List**

COPPER (CAS 7440-50-8)

#### US. New Jersey Worker and Community Right-to-Know Act

COPPER (CAS 7440-50-8)

## US. Pennsylvania Worker and Community Right-to-Know Law

COPPER (CAS 7440-50-8)

#### **US. Rhode Island RTK**

COPPER (CAS 7440-50-8)

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

# International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Material name: Copper Turnings

On inventory (yes/no)\* Country(s) or region Inventory name

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

12-17-2014 Issue date **Revision date** 09-01-2015

Version # 02

**NFPA** ratings Health: 2

Flammability: 0 Instability: 0

**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. Supplier cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling. storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and

experience currently available.

Material name: Copper Turnings 7/7

SDS No. 00830 Version #: 02 Revision date: 09-01-2015 Issue date: 12-17-2014