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M A T E R I A L S A F E T Y D A T A S H E E T

SECTION 1. CHEMICAL IDENTIFICATION

Name: Copper Oxide, Wire Form

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #: None

Components: Copper (II) oxide CAS 1317-38-0
Copper (I) oxide CAS 1317-39-0

EC No: 215-269-1

SECTION 3. HAZARDS IDENTIFICATION

Label Precautionary Statements:

Toxic (USA) Harmful (EU)

Dangerous for the environment. Harmful if swallowed. Very toxic to aquatic organisms.

SECTION 4. FIRST-AID MEASURES

If swallowed, wash out mouth with water provided person is conscious.

Make person drink copious quantities of water.

Call a Physician.

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

In case of contact, immediately wash skin with soap and copious amounts of water.

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

SECTION 5. FIRE FIGHTING MEASURES

Flash point, Autoignition Temp: N/A

Special Risks: Non combustible

Extinguishing media: Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special firefighting procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosions hazards: Emits toxic fumes under fire conditions.
Prevent firefighting water from entering surface or ground water.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Avoid inhalation of dust.

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

Sweep up, place in a bag and hold for waste disposal.

Avoid rising dust.

SECTION 7. HANDLING AND STORAGE

Handling: No further requirements

Storage: Keep tightly closed, dry, no specific storage temperatures.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Safety shower and eye bath. Mechanical exhaust required. Wash thoroughly after handling.

Respiratory protection required when dusts are generated.

Do not breathe dust.

Avoid contact with eyes, skin and clothing.

Avoid prolonged or repeated exposure.

NIOSH/MSHA-approved respirator.

Compatible chemical-resistant gloves.

In full contact Nitrile rubber gloves, 0.11mm thick, breakthrough time >480min.

In splash contact Nitrile rubber gloves, 0.11mm thick, breakthrough time >480 min.

Chemical Safety Goggles.

Keep tightly closed.

Store in a cool dry place.

Wash hands after working with substance.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour

Form: Solid rods

Appearance: Black/grey rods

Odour: odourless

Physical Properties

Melting point: ~13000°C

Bulk density: ~ 3000 kg/m³

Solubility in water: Insoluble

SECTION 10. STABILITY AND REACTIVITY

Stability – stable

Incompatibilities – substances to be avoided

Reducing agents

Hydrogen sulfide gas

Aluminium

Alkali metals

Finely powdered metals

Reducing agent

Hazardous combustion or decomposition products

Copper, copper alloys

Oxygen

Hazardous polymerization

Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

No hazardous properties are to be expected when the product is handled and used with appropriate care:

Route of exposure

Skin: Causes skin irritation. May be harmful if absorbed if absorbed through the skin.

Eye contact causes eye irritation.

Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS #: GL7900000
Copper Oxide

SECTION 12. ECOLOGICAL INFORMATION

Data not yet available

SECTION 13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

SECTION 14. TRANSPORT INFORMATION

Not subject to transport regulations. This product is considered to be non-hazardous for transport.

IATA

Proper shipping name: Environmentally hazardous substance, solid, N.O.S.

IATA UN Number: 3077

Hazard Group: 9

Packing Group: III

SECTION 15. REGULATORY INFORMATION

European Information:

Symbol o. Danger: Xn-N

Indication of Danger: Harmful. Dangerous for the environment R 36/37/38

Risk Statements: Harmful if swallowed: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S60-61

Safety Statements: This product and container must be disposed of as hazardous waste. Avoid release to the environment.

US Regulatory Information:

SARA Listed: Yes

Deminimis: 1%

This product is subject to SARA section 313. Reporting requirements – Copper Compounds.

Canada Regulatory Information:

WHMIS classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all of the information required nu the CPR.

DSL: Yes

NDSL: No

SECTION 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

Pharmplex shall not be held liable for any damage resulting from handling or from contact with the above product.