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Specification Sheet

Cupric Oxide Nanoparticles

(CuO, Purity: 99.9%, APS: 25-55nm)

Stock No: NS6130-03-310, CAS: 1317-38-0

Product : Cupric Oxide Nanopowder

Stock No : NS6130-03-310

CAS : 1317-38-0

Purity : 99.9 %

APS : 25-55 nm

Molecular Formula : CuO

Molecular Weight : 79.54 g/mol

Form : Powder

Color : Black

Density : 6.31 g/cm³

Melting Point : 1201 °C

Boiling Point : 2000 °C

Solubility : Insoluble In water

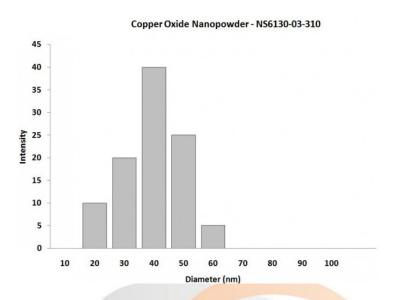
Main Inspect Verifier : Manager QC

Note: Product Specification are subject to amendment and may change over time

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Characterization of Cupric Oxide Nanoparticles



Particles Size Analysis - CuO Nanopowder



Cupric Oxide Nanopowder



MATERIAL SAFETY DATA SHEET

COPPER OXIDE NANOPOWDER Stock #: NS6130-03-310

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name : Copper Oxide Nanopowder Use : Research and Development

Address : Nanoshel LLC

3422 Old Capitol Suit 1305 Willmington DE – 19808

United States

Emergency : +1.532.253.9878



2. COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Characterisation : CuO Hazardous Ingredients : Nil

3. HAZARD IDENTIFICATION

Toxicity : No Data Available

Eye Contact : Dust may cause irritation

4. FIRST AID MEASURES

Skin : Wash skin with soap and copious amounts of water

Eyes : Imediate and prolonged irritation treat with

copious amounts of water.

Ingestion : Wash out mouth with water provided person

Is Conscious.

Inhalation : If inhaled, remove to fresh air. If not

breathing give artificial respiration. If

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breathing is difficult, give oxygen

5. FIREFIGHTING MEASURES

Extinguishing Data : Water Spray

Unsuitable Extinguishing Data : Carbon Dioxide, Dry Chemical Powder,

Polymer Foam

Unusual Firefighting Hazards : Capable of creating a dust explosion

Special Firefighting Procedures : Use normal procedures which include

wearing self-contained breathing apparatus and protective clothing to prevent contact

with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : Wear respirator, chemical safety goggles,

rubber boots and gloves.

Precautions to the Environment : Sweep up, place in a bag and hold for waste

disposal.

Cleanup Procedures : Avoid raising dust. Ventilate area and wash

spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling Precautions : Chemical Safety Goggles. Compatible with

Chemical-resistant Gloves

Miracles in Black

Storage : Store in a cool dry place.

Unusable Packaging Materials : Wash thoroughly after handling. Irritating

dust, Keep tightly closed

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal Protective Equipment

Respiratory : Self-contained breathing apparatus

Hand : Chemical-resistant Gloves Eye : Avoid contact with eyes

Skin : Wash thoroughly after handling

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : Powder Colour : Black Odour : No Odour

Safety Related Information

10. STABILITY AND REACTIVITY

Stability : Completely Stable

Reactivity : Non Reactive/ Non Soluble

11. TOXICOLOGICAL INFORMATION

Possible Health Effects

Skin : No effect Eyes : Irritation

Inhalation : No Chocking Hazard

Toxicity : Non-Toxic

12. ECOLOGICAL IMPACT reating Miracles in Black

Avoid raising dust. Ventilate area and wash spill site after material pickup is complete. No Negative Ecological Impact, Data not Available

13. WASTE DISPOSAL

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator, equipped with an afterburner and scrubber

14. TRANSPORT INFORMATION (UN ORNEK OLARAK VERİLMİŞTİR)

HS Code : 28259090 CAS : 1317-38-0

Proper Shipping Name : Copper Oxide Nanopowder

Air Transport (ICAO & IATA) : Oxide Nanopowder Class : Non Hazardeous Packing group : Normal Packing

Transport information : Not regulated for IATA (AIR)

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15. OHTER REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory: Copper Oxide Nanopowder

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada)

DSCL (EEC):

R36- Irritating to eyes

S2- Keep out of the reach of children

S46- If swallowed, seek medical advice immediately & show container or label

HMIS (U.S.A.):

Health Hazard: 1 Fire Hazard: 0 Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0 Reactivity: 0

Specific hazard:

NANOSHEL

Creating Miracles in Black

Protective Equipment:

Gloves.

Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Splash goggles.

16. OTHER INFORMATION

References: Not available

Other Special Considerations: Not available