



Nandira[®] Chemicals

MIDC Kondhane, Bandhanpada, Kudus, Taluka Wada, District - Thane Maharashtra, India.

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MATERIAL SAFETY DATA SHEET (MSDS)

PRODUCT: COPPER BRIGHTENER

Section I

Manufacturer.s Name: Ms. Nandira Chemicals
Thane

Section II.

Hazardous Ingredients/Identity Information

Hazardous Nature : Non hazardous
Toxicity level : Acceptable
CHLORIDE FREE

Section III.

Physical/Chemical Characteristics NA. Not Applicable

Boiling Point : (Degrees F) 212 +/-2
Melting Point : NA
Specific Gravity : 1.2 +/-0.2
Vapor Pressure : (70 Degrees F) 20 Vapor Density: (Air=1)
Evaporation Rate: (Water = 1): 1
Solubility in Water : 100%
Appearance and Odor: DARJK YELLOW, LIGHT acidic odor

Section IV.

Fire and Explosion Hazard Data NFPA Rating:

Health 1 Flammability 0 Reactivity 1

Flash Point (Method Used): None

Flammability Limits: NA LEL: NA UEL: NA

Extinguishing Media: Water or water fog. NA

Special Fire Fighting Procedures: NA

Section V.

Reactivity Data

Stability: Stable Conditions to Avoid: None

Incompatibility (Materials to avoid) Strong alkalis, reducing agents.

Hazardous Decomposition or Byproducts: None

Hazardous Polymerization: Will not appear.

Section VI.

Health Hazard Data

Routes of Entry: Inhalation: X Skin: X Ingestion: Not likely

Health Hazards: (Acute and Chronic)

- Eye irritant. Prolonged contact will damage the eyes.
- Inhalation of fumes can cause irritation of respiratory system. Prolonged exposure could cause damage to nasal and passages.
- Skin irritation can occur from brief contact.
- Ingestion can cause irritation and burns to the mouth, throat and stomach.

Carcinogenicity: No NTP? NA

Signs and symptoms of major exposure: Irritation to eyes, nose and mouth. Burning sensation to skin.

Medical conditions generally aggravated by exposure: Pre-existing skin disorders, eye problems, skin and respiratory problems.

Emergency first aid procedures:

- Eye or skin contact: Flush immediately with copious running water for at least 15 minutes.
- If ingested: DO NOT induce vomiting. Give large quantities of milk or water. Get immediate medical attention.

Section VII.

Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled:

- **Small spill:** Neutralize with sodium bicarbonate or 50/50 mixture of soda ash and slaked lime. Flush with water.
- **Large spill:** Wear protective equipment and clothing. Contain spill by diking with non-combustible absorbent material. Pump to salvage tank. Neutralize remainder with 50/50 mixture of soda ash and slaked lime. Scoop up neutralized mixture and wash site with soda ash solution. Report spills in accordance with governmental regulations.

Waste disposal method:

Neutralize to required pH (7.5-8.0) with calcium hydroxide, 2.2 pounds per gallon, full strength new solution is required. Dispose of neutralized waste in accordance with applicable government regulations.

Precautions to be taken in handling and storing:

Handle as any white label material. Wear protective equipment when handling. Do NOT wear contact lenses. In case of spill, remove and discard contaminated clothing and launder before reuse. Discard contaminated shoes.

Other Precautions:

Emptied containers may still contain product residues (liquid and vapor) and could be hazardous. Do not reuse. Dispose of in accordance with applicable government regulations.

Section VIII.

Control Measures

Respiratory Protection (Specify Type): Not needed IF adequate ventilation is provided. If needed, use self-contained breathing apparatus or supplied air respirator or other NIOSH approved respiratory device.

Ventilation: Local exhaust? Mechanical with hood.

Special: NA

Mechanical (General)? Not recommended.

Other? NA

Protective Gloves: Acid resisting

Eye protection: Chemical goggles and full-face piece respirator is worn.

Other protective clothing or equipment: Full rubber apron recommended. Depending on size of operation, acid resistant slicker suit with rubber boots may be advisable. Eye wash and shower should be readily available.

Work/Hygienic Practices: Do not reuse emptied containers. Clean spill immediately. Do not eat or keep food in work area.

Section IX.

CHEMICAL COMPOSITION:

SULFAMIC COMPOUND

DEFOAMER

ANTIOXIDANT

DISTILLED WATER

Wash hands before eating.

NANDIRA