



南京丰山化学有限公司

NANJING FENGSHAN CHEMICAL CO., LTD.

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER: Nanjing Fengshan Chemical Co., Ltd.

ADDRESS: 1904 Centre International Plaza, 105-6 North Zhongshan Road, Nanjing City, Jiangsu Province, China.

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PRODUCT NAME: Copper Hydroxide 77%WP

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Direct contact may seriously damage eye tissue, Slightly to non-toxic orally, dermally, and by inhalation.

POTENTIAL HEALTH HAZARDS:

INHALATION: Moderately irritating to respiratory tract. Prolonged inhalation may be harmful.

INGESTION: May be harmful if swallowed.

EYES: Severely irritating to the eyes, corrosive. If not removed promptly, will injure eye tissue, which may result in permanent damage.

POTENTIAL PHYSICAL HAZARDS: Can decompose at high temperatures forming toxic gases.

ENVIRONMENTAL HAZARDS: Toxic to wild life and domestic animals.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Copper Hydroxide

CAS No: 20427-59-2

ACTIVE INGREDIENT: 77%. (50% of Copper Content)

SECTION 4: FIRST AID MEASURES

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an



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ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate use of gastric lavage.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: Not flammable

Extinguishing Media: Use media suited to burning material.

Fire and Explosion Hazards: Decomposition products are toxic and corrosive. There is little or no chance of an explosion from this product if involved in a fire.

Fire-fighting Equipment: Wear full protective clothing including face mask, face shield and gauntlets.

SECTION 6: ACCIDENTAL RELEASE MEASURES

FIRE OR EXPLOSION HAZARDS: Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.

EXTINGUISHING MEDIA: Proper to primary cause of fire. Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.

FIRE FIGHTING INSTRUCTIONS: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam or dry chemical fire extinguishing system is preferred to prevent excessive water run off.

SPECIAL FIRE FIGHTING PROCEDURES: If Copper Hydroxide is involved in a fire,



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avoid breathing smoke. Use a positive-pressure, self-contained breathing air supply.
Avoid getting water from fire fighting into domestic or irrigation water supplies.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of Copper.

SECTION 7: HANDLING AND STORAGE

STEPS TO BE TAKEN IF THE MATERIAL IS RELEASED OR SPILLED:

Clean up spills immediately, observing precautions in Protective Equipment section.
Isolate hazard area. Keep unnecessary personnel from entering. Vacuum collect into containers for recovery and disposal. Mark and store containers as hazardous waste.

WASTE DISPOSAL METHOD: Dispose on approved hazardous waste disposal site.
Follow applicable State and Federal regulations.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

APPLICATORS AND OTHER HANDLERS MUST WEAR:

1. Long-sleeved shirt and long pants
2. Chemical-resistant gloves made of any waterproof material
3. Shoes plus socks
4. Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid (very fine powder)



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ODOR: None

COLOR: Pale Blue

MELT POINT: Decomposes 140 °C

SPECIFIC GRAVITY: NA

WATER SOLUBILITY (25°C): 2.9 mg/L

BOILING POINT: NA (Decomposes 140 °C)

pH: 7.0-10.5

FREEZING POINT: NA

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable. However may decompose if heated.

CONDITIONS TO AVOID: Temperatures over 125 °F. Avoid exposure to high moisture conditions for prolonged periods.

POLYMERIZATION: Does not polymerize.

INCOMPATIBILITY (MATERIALS TO AVOID): Ammonia or acid vapors. Strong acids. Copper is corrosive to aluminum, especially when in aqueous state and elevated temperatures.

HAZARDOUS DECOMPOSITION: Decomposes in high temperature to CuO +H₂O.

SECTION 11: TOXICOLOGICAL INFORMATION

(Technical)

LD₅₀ ORAL (Rats): 489 mg/kg

LD₅₀ DERMAL (Rats): >3160mg/kg

LD₅₀ INHALATION (Rabbit): > 2.15 mg/L

EYE IRRITATION (rabbit): mildly

SKIN IRRITATION (rabbit): Slight.

SENSITIZATION (guinea pig): Non sensitizing.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Acute asthma and/or other chronic pulmonary diseases due to inhalation of dust or spray mists.



SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: This product is toxic to fish and aquatic organisms. Do not apply directly to water, or to areas where surface water is present. Do not contaminate water when disposing of equipment wash waters.

FISH TOXICITY: (Technical)

FISH LC₅₀ (as 100% active): Blue Gill 180 ppm/96 hrs.

FISH LC₅₀ (as 100% active): Rainbow Trout 23 ppm/96 hrs.

AVIAN TOXICITY: (Technical)

ORAL LD₅₀ (Bobwhite quail): 3,400 mg/kg.

ORAL LD₅₀ (Mallard duck): > 10,000 mg/kg.

BEE TOXICITY: Non toxic.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE: Product wastes are Toxic. Dispose in accordance with applicable Federal, State and Local laws and regulations.

CONTAINER: Refer to product label.

SECTION 14: TRANSPORT INFORMATION

NA

SECTION 15: REGULATORY INFORMATION

N/A

SECTION 16: OTHER INFORMATIONS

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read



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and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.

THE END OF MATERIAL SAFETY DATA SHEET

FengshanChem