

MSDS DATE: 12/16/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: COPPER & SCALE STUFF

SYNONYMS: STAIN SOLUTION #2 - The COPPER & SCALE STUFF

PRODUCT CODES: NA

MANUFACTURER: Jack's Magic

DIVISION: FL

ADDRESS: Largo, FL

EMERGENCY PHONE: 727-560-3177 CHEMTREC PHONE: 800-424-9300 OTHER CALLS: 727-504-0400 FAX PHONE: 727-532-0250

CHEMICAL NAME: COPPER & SCALE STUFF CHEMICAL FAMILY: Oxidizing Agents CHEMICAL FORMULA: Proprietary

PRODUCT USE: Pool and Spa PREPARED BY: J. Virgilio

SECTION 1 NOTES: NA

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a strong acid and causes severe irritation or burns upon contact with eyes, skin, or mucous membranes of the respiratory tract. Inhalation of high levels can cause pulmonary edema (fluid in the lungs) which may be life-threatening. Be sure to wear safety glasses and gloves when handling this material.

Harmful if swallowed.

Risk of serious damage to eyes. Wear gloves and eye protection (or face shield)

ROUTES OF ENTRY: EYES, SKIN CONTACT, INHALATION, INGESTION.

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH HAZARDS:

Skin: Hazardous in case of skin contact (severe irritant). Scarring may be permanent.

Inhalation: Inhalation of this product particals can cause severe irritation and burns of the nose and respiratory tract. Inhalation of high levels can cause pulmonary edema (fluid in the lungs) which may be delayed up to 48 hours.

Eyes: Eye contact (irritant – can cause serious damage/burns). Scarring may be permanent.

Ingestion: The mouth and esophagus may appear grayish-white progressing to black with a shrunken and wrinkled texture. Esophageal or stomach perforation may occur. Circulatory collapse occurs in extreme cases with clammy skin, weak and rapid pulse, shallow repiration, and scanty urine. Uncorrected circulatory collapse can cause kidney failure and ischemic (localized tissue anemia due to decreased inflow of arterial blood) lesions of the heart and liver. Death is generally due to circulatory collapse or asphyxiation due to glottis edema (fluid and swelling in the epiglottis which causes insufficient oxygen to reach the windpipe). The estimated human lethal dose is 0.5 to 5 g/kg (1 oz to 1 pint for a 70 kg/150 lb person).

Carcinogenicity: IARC, NTP, and OSHA do not list this acid as a carcinogen.

CHRONIC HEALTH HAZARDS:

CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None Known

Components of this product contain no known Carcinogenic agents.



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SECTION 2 NOTES: NA

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

CAS NO. % WT
Component A >90
INERT Proprietary Balance

SECTION 3 NOTES: Proprietary Formulation

SECTION 4: FIRST AID MEASURES

EYES: Do not allow victim to rub or keep eyes tightly shut. Gently lift eyelids and rinse immediately with plenty of water until victim can see a physician or eye doctor. Acute symptoms after contact: inflammation/damage to eye tissue. Corrosion of the eye tissue.

SKIN: In case of contact, immediately remove contaminated clothing (if not stuck to skin) and flush skin with plenty of water for at least 15 minutes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. If irritation persists seek medical attention. *Acute symptoms after contact: No significant irritation.*

INGESTION: Never give mouth to mouth to an unconscious or convulsing person. Contact a poison control center. Unless the poison control center advises otherwise, have the conscious and alert person drink 1 to 2 glasses of water to dilute product in stomach. Do not induce vomiting because of the corrosive nature of the acid. Vomting will worsen esophageal irritation/condition. *Acute symptoms after contact: irritation or burns to mouth and throat.*

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration (CPR). If breathing is difficult, give oxygen. Get medical attention immediately. Acute symptoms after contact: Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treatment is symptomatic and supportive. Treat asfor thermal burns. Severe inhalation exposures may result in delayed pulmonary edema; in these cases consider close observation for 24 to 48 hours.

SECTION 4 NOTES: NA

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: Not Available (% BY VOLUME) LOWER: Not Available

FLASH POINT: Non-combustible

METHOD USED: NA

AUTOIGNITION TEMPERATURE: Non-combustible

HMIS HAZARD CLASSIFICATION

HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0

PROTECTION: NA

EXTINGUISHING MEDIA: Use agent suitable for surrounding fire.



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SPECIAL FIRE FIGHTING PROCEDURES: Due to thermal toxic decomposition products produced, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Emits toxic gases when heated.

HAZARDOUS DECOMPOSITION PRODUCTS: Emits toxic gases when heated.

SECTION 5 NOTES: NA

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: For personal protection see section 8. Persons not wearing appropriate protective gear should be excluded from area of spill until clean-up has been completed.

ENVIRONMENTAL PRECAUTIONS: Prevent spreading concentrate solution over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Spilled material must be collected and properly disposed of. Never return spill material to its original container. Clean contaminated surfaces with plenty of water. Wash clothing and equipment after handling.

METHODS FOR CLEAN-UP: Keep in suitable, closed containers for disposal. Plug the leak(s), cut off supply of spill. Flush with plenty of water in the containment area for later collection and disposal. Do not release into sewers or waterways. Damp mop with dilute alkaline solution (sodium bicarbonate, sodium hydroxide, lime).

SECTION 6 NOTES: Small spills collected carefully not to disperse into the air. May be vacuumed with appropriate filter and properly disposed in accordance with all laws.

SECTION 7: HANDLING AND STORAGE

HANDLING: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Minimize dust generation and accumulation. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

STORAGE: Store in a cool, dry, ventilated area. Keep out of direct sunlight. Keep only in original (labeled) tightly sealed container. Keep away from incompatible substances, such as bases or caustic chemicals. Meet all state and local legal requirements.

OTHER PRECAUTIONS: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues, all hazard precautions given in the data sheet must be observed.

SECTION 7 NOTES: NA

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL ADVICE: These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

VENTILATION: Provide general or local exhaust ventilation systems to maintain airborne concentrations as low as possible. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

RESPIRATORY PROTECTION: A MSHA/NIOSH-approved air-purifying respirator with an appropriate cartridge (Type P2) and/or filter may be permissible under certain circumstances where airborne concentrations where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.



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EYE PROTECTION: Wear chemical splash goggles or face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.

Maintain eye wash station in immediate work area.

SKIN & BODY PROTECTION: Wear appropriate chemical impervious clothing, gloves and boots whenever there is potential for skin contact with product (PVC or Rubber). Launder clothing before reuse. Maintain safety shower at all locations where skin contact is imminent. Contact your local safety equipment supplier to assist the facility in determining proper selection of personal protective equipment for the applications/operations present at your facility. Wear resistant gloves (consult your safety equipment supplier). Discard gloves that show tears, pinholes, or signs of wear.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Aprons are to be worn if material is likely to splash, spill or produce a mist, vapor or spray.

WORK HYGIENIC PRACTICES: Wash hands often and whenever you have completed handling this material before you handle other items including your eyes, mouth, etc.

EXPOSURE GUIDELINES: Mechanical ventilation systems used to ventilate corrosive storage or process areas in areas, such as manufacturing, should be designed with components that are corrosion resistant.

SECTION 8 NOTES: Never eat, drink or use smokeless or smoke tobaccos in work areas. Practice good hygiene after using this product, especially before eating, drinking, using the toilet or applying cosmetics.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White (to off-white) orthorhombic crystals Solid

ODOR: Odorless

PHYSICAL STATE: Crystalline solid, crystalline powder.

pH AS SUPPLIED: NA

pH (1% Solution in H20): 1.18 @ 77 deg F.

BOILING POINT: 401 deg F.

MELTING POINT: 401 deg F.

FREEZING POINT: NA

VAPOR PRESSURE (kPa): 0.006 mm Hg at 68 deg F.

VAPOR DENSITY (AIR = 1): NA

SPECIFIC GRAVITY (H2O = 1): 2.15 g/cc

EVAPORATION RATE: NA

POLYMERIZATION: Will Not Occur.

SOLUBILITY IN WATER: 6.5 parts water at 32 deg F; 2 parts water at 176 deg F.

PERCENT SOLIDS BY WEIGHT: 100%

PERCENT VOLATILE: NA

VOLATILE ORGANIC COMPOUNDS (VOC): NA

MOLECULAR WEIGHT: 2140 kg/m3

SECTION 9 NOTES: NA

SAFETY DATA SHEET COPPER & SCALE STUFF

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SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Toxic gases can be produced in the presence of excessive heat.

STABILITY: Stable when dry, but it slowly hydrolyses in solution to form ammonium bisulfate.

CONDITIONS TO AVOID (STABILITY): Exposure to incompatibles and dispersion of particulates into air.

INCOMPATIBILITY: Undergoes a violent or explosive reaction with chlorine, metal nitrates + heat, metal nitrates + heat, and fuming nitric acid.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Reacts with many compounds: oxidation resulting in increased fire or explosion risk. Upon combustion: CO and CO2 are formed.

HAZARDOUS POLYMERIZATION: Material will not undergo hazardous polymerization.

SECTION 10 NOTES: NA

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICOLOGICAL: Oral - LD50 - 3160 mg/kg (Rat); 1312 mg.kg (mouse - caused altered sleep time)

Dermal – 4% solution applied intermittently for 5 days caused mild irritation (human)

Inhalation - NA

*Conclusion: Harmful if swallowed.

CORROSION / IRRITATION: EYE: Highly irritating - 20 mg caused moderate irritation; 250 mg/24 hr. caused serious irritation. (Rabbit)

SKIN: No Data Available.

INHALATION – No Data Available. *Conclusion: Causes serious eye damage.

RESPIRATORY OR SKIN SENSITIVITY:

SKIN: No Data Available.

INHALATION: No Data Available.

*Conclusion: NA

SPECIFIC TARGET ORGAN TOXICITY:

ORAL: No Data Available. DERMAL: No Data Available. INHALATION: No Data Available.

SECTION 11 NOTES: NA

SECTION 12: ECOLOGICAL INFORMATION

BIODEGRADABILITY: No Data Available

TOXICITY TO FISH: No Data Available.

TOXICITY TO ALGAE: No Data Available

TOXICITY TO BACTERIA: No Data Available

BIOCHEMICAL OXYGEN DEMAND: No Data Available

CHEMICAL OXYGEN DEMAND: No Data Available

SECTION 12 NOTES: NA



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SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dilute with water, neutralize with alkaline material (lime, sodium bicarbonate, sodium hydroxide). Waste must be disposed of in accordance with federal, state and local environmental control regulations. Remove to an authorized plant for destruction, neutralization and elimination of hazardous waste. Hazardous waste shall not be mixed together with other waste or other types of hazardous waste, if it may entail a risk of pollution or create problems for future management of the waste.

SECTION 13 NOTES: NA

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:

PROPER SHIPPING NAME: Corrosive solid, acidic, inorganic, n.o.s.

HAZARD CLASS: 8
ID NUMBER: UN3260
PACKING GROUP: III
LABEL STATEMENT: NA
LIMITED QUANTITIES: NA

WATER TRANSPORTATION:

PROPER SHIPPING NAME: Corrosive solid, acidic, inorganic, n.o.s.

HAZARD CLASS: 8
ID NUMBER: UN3260
PACKING GROUP: III
LABEL STATEMENT: NA
LIMITED QUANTITIES: NA

RAIL (RID) TRANSPORTATION:

PROPER SHIPPING NAME: Corrosive solid, acidic, inorganic, n.o.s.

HAZARD CLASS: 8
ID NUMBER: UN3260
PACKING GROUP: III
LABEL STATEMENT: NA
LIMITED QUANTITIES: NA

AIR (ICAO-TI/IATA-DGR) TRANSPORTATION:

PROPER SHIPPING NAME: Corrosive solid, acidic, inorganic, n.o.s.

HAZARD CLASS: 8
ID NUMBER: UN3260
PACKING GROUP: III
LABEL STATEMENT: NA
LIMITED QUANTITIES: NA

OTHER AGENCIES: NA

SECTION 14 NOTES: NA

Dangerous goods description (if indicated above) may not reflect quantity, end-use or region-specific exceptions that may apply. Consult shipping documents for descriptions that are specific to the shipment.

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SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Listed on TSCA inventory.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): NOT REGULATED

SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): Section 302 (RQ) No RQ for this product.

CLEAR AIR ACT: This material does not contain any hazardous air pollutants. This product does not contain Class 1 or Class 2 Ozone depletors.

CLEAN WATER ACT: None of the chemicals in this product are listed as Hazardous Substances, Priority Polutants or Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

STATE REGULATIONS: NJ and CA have the chemical in this product listed as having No Significant Risk level.

INTERNATIONAL REGULATIONS:

European Legislation: In accordance with EC Directives.

SECTION 15 NOTES: NA

SECTION 16: OTHER INFORMATION

REFERENCES: Information based on classification according to B.C. (01/2015).

PREPARATION INFORMATION CREATED: 12/16/2015 LAST UPDATED: 12/16/2015

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