



SAFETY DATA SHEET

COPPER & SCALE STUFF

FILE NO.: SDS-0005

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 particulates 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 respiration, 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:

<u>CAS NO.</u>	<u>% WT</u>
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. Vomiting 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 as for 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

HMS 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 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 H₂O): 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



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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 depleters.

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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SAFETY DATA SHEET

O2 SAFE SHOCK

FILE NO.: SDS-0002

MSDS DATE: 12/16/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: O2 SHOCK
SYNONYMS: STAIN SOLUTION #3 - O2 SHOCK
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: O2 SHOCK
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 may intensify fire; oxidizer. This product may cause serious damage to eyes and skin. Harmful if ingested, it may cause nausea, headache, and a physician should be consulted if ingested or if eye irritation exists.

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC

Contact with combustible material may cause fire. Keep away from heat, sparks, open flames and hot surfaces. No smoking around this product.

Heat may cause pressure rise in sealed (not adequately vented) tanks/drums: explosion risk.

Harmful to fish.

Toxic to invertebrates (Daphnia)

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: Hazardous in case of skin contact (irritant), of eye contact (irritant – can cause serious damage), of ingestion or inhalation (call poison center or physician if feeling irregular). Slightly hazardous in case of skin contact (corrosive), of eye contact (DANGEROUS). The amount of tissue damage depends on the length of contact time. Eye contact can result in corneal damage or blindness. Skin contact can produce minor inflammation and blistering. Inhalation of mist can produce irritation to gastro-intestinal or respiratory tract, characterized by slight burning, sneezing and coughing. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

CHRONIC HEALTH HAZARDS:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance can be toxic to mucous membranes, skin, and eyes. Repeated skin exposure can produce local skin irritation, or dermatitis. Repeated inhalation of vapor/mist can produce varying degree of respiratory irritation or lung damage.



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O2 SAFE SHOCK

FILE NO.: SDS-0002

MSDS DATE: 12/16/2015

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None Known

Components of this product contain no known Carcinogenic agents.

SECTION 2 NOTES: If product comes in contact with eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and can be done safely. Continue rinsing and consult a physician. If swallowed rinse mouth and call poison center or physician if you do not feel well.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

<u>CAS NO.</u>	<u>% WT</u>
Component A	10-90
Component B	10-90
Inert Ingredients	Balance

SECTION 3 NOTES: Specific identification & percentage of composition is being withheld as a trade secret. Proprietary Formulation

SECTION 4: FIRST AID MEASURES

EYES: Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately. *Acute symptoms after contact: inflammation/damage to eye tissue. Corrosion of the eye tissue.*

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. 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: Rinse mouth with water. If ingested, give lots of water to drink. Do not induce vomiting unless directed to do so by medical professional. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. *Acute symptoms after contact: Nausea. Vomiting.*

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: No further information Available.

SECTION 4 NOTES: NA

SECTION 5: FIRE-FIGHTING MEASURES

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

FLASH POINT: NA

METHOD USED: NA

AUTOIGNITION TEMPERATURE: Not Applicable

HMIS HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 1



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FILE NO.: SDS-0002

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PROTECTION: Inhalation Protection – Upon combustion: CO and CO₂ are formed

EXTINGUISHING MEDIA: Large quantity of water.

SPECIAL FIRE FIGHTING PROCEDURES: Gloves, safety glasses, Protective clothing. Dust cloud protection: compressed air/oxygen apparatus. Heat/Fire Exposure: compressed air/oxygen apparatus. Upon combustion: CO and CO₂ are formed.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Cool tanks/drums with water spray/remove them into safe area away from heat. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion.

HAZARDOUS DECOMPOSITION PRODUCTS: Upon combustion: CO and CO₂ are formed.

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. Dam up and soak up with inert absorbent material. (e.g. sand, silica gel, acid binder, universal binder, sawdust, clay-bases granular).

SECTION 6 NOTES: Prevent dust cloud formation. Avoid open flames. Comply with all applicable federal, state, and local regulations for clean-up and disposal methods.

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 from freezing or away from open flames/heat. Keep out of direct sunlight. Keep only in original (labeled) container. Meet all state and local legal requirements.

OTHER PRECAUTIONS: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid and/or solid), all hazard precautions given in the data sheet must be observed.

SECTION 7 NOTES: Suitable packing materials include stainless steel, aluminum, polyethylene, polypropylene. (NON-SUITABLE: Steel)

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: Always use this material in a well ventilated area.

RESPIRATORY PROTECTION: A 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: NA

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White Solid

ODOR: Odorless

PHYSICAL STATE: Crystalline solid, crystalline powder.

pH AS SUPPLIED: 10.5 +/- 2% (140 g/l; 20 deg C)

pH (1% Solution in H₂O): NA

BOILING POINT: NA

MELTING POINT: NA

FREEZING POINT: NA

VAPOR PRESSURE (kPa): NA

VAPOR DENSITY (AIR = 1): NA

SPECIFIC GRAVITY (H₂O = 1): NA

EVAPORATION RATE: NA

POLYMERIZATION: Will Not Occur.

SOLUBILITY IN WATER: Easily soluble in cool water, hot water. Soluble in dilute material. **(water; 140 g/l @ 20 C)**

PERCENT SOLIDS BY WEIGHT: 100%

PERCENT VOLATILE: NA

VOLATILE ORGANIC COMPOUNDS (VOC): NA

MOLECULAR WEIGHT: 2140 kg/m³

SECTION 9 NOTES: NA



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SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Promotes combustion. Substance has basic reaction.

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Excessive heat or freezing. Keep away from open flames/heat. Avoid raising dust.

INCOMPATIBILITY: Combustible materials, Strong Acids, metals, strong bases, organic materials, water/moisture, steel..

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 Eqiv.to OECD 401 – 1034 mg/kg (Rat)
Dermal – LD50 Eqiv. to OECD 402 - >2000 mg/kg (Rabbit)
Inhalation – NA

***Conclusion:** Harmful if swallowed, Low acute toxicity by oral route. Low acute toxicity by inhalation route.

CORROSION / IRRITATION: EYE: Highly irritating – EPA OPP 81-4 (method) – 1; 24; 48; 72 hours (Rabbit)
SKIN: Not Irritating – Other (method) – 4 hour exposure – 1; 2; 3; 4; 7; 10; 14 days (Rabbit)
INHALATION – No Data Available.

***Conclusion:** Not classified as irritating to the skin. Causes serious eye damage.

RESPIRATORY OR SKIN SENSITIVITY:

SKIN: Not Sensitizing – Buehler Test (method) – 48 hour (obs.) – Guinea Pig
INHALATION: No Data Available.

***Conclusion:** Not classified as sensitizing for skin or inhalation.

SPECIFIC TARGET ORGAN TOXICITY:

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

SECTION 11 NOTES: All above Toxicology Info refers to Component A.

SECTION 12: ECOLOGICAL INFORMATION

BIODEGRADABILITY: No Data Available

TOXICITY TO FISH:

FRESH WATER FISH: 48 hrs - LC 50 - Pimephales promelas - 70.7 mg/l - Method: US EPA.
FRESH WATER INVERTEBRATES: 48 hrs – EC50 – Daphnia pulex – 4.9 mg/l – Method: US EPA
SALT WATER: No Data Available

***Conclusion:** Harmful to fishes. Toxic to invertebrates. PH shift.

TOXICITY TO ALGAE: No Data Available

TOXICITY TO BACTERIA: No Data Available

BIOCHEMICAL OXYGEN DEMAND: No Data Available

RESULTS OF PBT and vPvB ASSESSMENT: The criteria of PBT and vPvB as listed in Annex XIII of regulation (EC) N. 1907/2006 do not apply to inorganic substances.

CHEMICAL OXYGEN DEMAND: No Data Available

SECTION 12 NOTES: All above Ecological Info refers to Component A.



SAFETY DATA SHEET

O2 SAFE SHOCK

FILE NO.: SDS-0002

MSDS DATE: 12/16/2015

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: 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 solids, oxidizing, n.o.s.

HAZARD CLASS: 5.1

ID NUMBER: UN3084

PACKING GROUP: II

LABEL STATEMENT: O2

LIMITED QUANTITIES: Combination packagings: not more than 1 kg per packaging for solids. A package shall not weigh more than 30 kg. (gross mass)

WATER TRANSPORTATION:

PROPER SHIPPING NAME: Corrosive solids, oxidizing, n.o.s.

HAZARD CLASS: 5.1

ID NUMBER: UN3084

PACKING GROUP: II

LABEL STATEMENT: O2

LIMITED QUANTITIES: Combination packagings: not more than 1 kg per packaging for solids. A package shall not weigh more than 30 kg. (gross mass)

RAIL (RID) TRANSPORTATION:

PROPER SHIPPING NAME: Corrosive solids, oxidizing, n.o.s.

HAZARD CLASS: 5.1

ID NUMBER: UN3084

PACKING GROUP: II

LABEL STATEMENT: O2

LIMITED QUANTITIES: Combination packagings: not more than 1 kg per packaging for solids. A package shall not weigh more than 30 kg. (gross mass)

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

PROPER SHIPPING NAME: Corrosive solids, oxidizing, n.o.s.

HAZARD CLASS: 5.1

ID NUMBER: UN3084

PACKING GROUP: II

LABEL STATEMENT: O2

SPECIAL PROVISIONS: Passenger and Cargo Transport: Limited Quantities: 2.5 kg. maximum net weight per packaging.

OTHER AGENCIES: NA

SECTION 14 NOTES: Quantity Limits: Passenger/Cargo Aircraft = 2.5 kg, Vessel Stowage: 30 kg., Road: 30 kg., Rail: 30 kg.

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.



SAFETY DATA SHEET

O2 SAFE SHOCK

FILE NO.: SDS-0002
MSDS DATE: 12/16/2015

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): NOT REGULATED

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

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): NOT REGULATED

311/312 HAZARD CATEGORIES: NOT REGULATED

313 REPORTABLE INGREDIENTS: NOT REGULATED

STATE REGULATIONS: NOT REGULATED

INTERNATIONAL REGULATIONS:

European Legislation: Drinking Water Standards: Maximum concentration: 200 mg/l (sodium) Directive 98/83/EC

Netherlands National legislation: Waste Identification: LWCA (the Netherlands): KGA category 06, Waterbezwaarlijkheid: 7

Germany National Legislation: TA-Luft – TA-Luft Klasse 5.2.1, WGK – 1; Classification water polluting in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 2)

SECTION 15 NOTES: NA

SECTION 16: OTHER INFORMATION

REFERENCES: Information based on classification according to CPI (08/2013)

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

DISCLAIMER: The information accumulated herein is believed to be accurate and represents the best information currently available. However we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Jack's Magic Products be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Jack's Magic Products has been advised of the possibility of such damages.



THE PURPLE STUFF

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
Trade Names	The Purple Stuff
CAS No.	Mixture

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Swimming Pool Maintenance
Uses Advised Against	None

Details of the supplier of the safety data sheet

Company Identification	Jack's Magic Products, Inc. 12435 73 rd Court Largo, FL 33773 United States of America
Telephone	(800) 348-1656 / (727) 536-4500
Fax	(727) 532-0250
E-Mail (competent person)	Regulatory@JacksMagic.com

Emergency telephone number

Emergency Phone No.	CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)
---------------------	---

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)	Skin Corr. 1C; Eye Dam. 1; Met. Corr. 1
-----------------------------	---

Label elements

Hazard Symbol(s)



Signal Word(s)

DANGER

Hazard Statement(s)

Causes severe skin burns and eye damage.

May be corrosive to metals.

Precautionary Statement(s)

Wash hands and exposed skin after use.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe dust/fume/gas/mist/vapours/spray.

Take off contaminated clothing and wash before reuse.

Keep only in original container.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower. Get immediate medical attention. Wash contaminated clothing before reuse.

IF INHALED: Treat symptomatically.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get immediate



THE PURPLE STUFF

Other hazards
Additional Information

medical attention.
None
None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	*%W/W	CAS No.	Hazard Statement(s)
Mixture of proprietary diphosphonic and tricarboxylic acids and maleic acid-based polymers	15 - 30	Trade Secret	Skin Corr. 1C; H314 Eye Dam. 1; H318 Met. Corr. 1; H290
Phosphorous Acid	1 - 5	13598-36-2	Skin Corr. 1A; H314 Eye Dam. 1; H318

Additional Information – None

* The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Not normally required. Treat symptomatically.
Skin Contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get immediate medical attention. Wash contaminated clothing before reuse.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
Ingestion	Rinse mouth. Do NOT induce vomiting. Get immediate medical attention.
Most important symptoms and effects, both acute and delayed	Causes severe damage to eyes and skin.
Indication of any immediate medical attention and special treatment needed	None

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media	
-Suitable Extinguishing Media	Non-combustible. As appropriate for surrounding fire.
-Unsuitable Extinguishing Media	None anticipated.
Special hazards arising from the substance or mixture	None anticipated.
Advice for fire-fighters	Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapours/spray.
Environmental precautions	Contain spillages with sand, earth or any suitable adsorbent material. Prevent entry into drains.



THE PURPLE STUFF

Methods and material for containment and cleaning up Cover spills with inert absorbent material. Transfer to a container for disposal or recovery. Wash the spillage area with water. If possible prevent water running into sewers.

Reference to other sections None

Additional Information None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Avoid contact with skin, eyes or clothing. Wear protective gloves/protective clothing/eye protection/face protection.

Conditions for safe storage, including any incompatibilities

- Storage temperature Do not allow material to freeze.
- Incompatible materials Substances that react with water. Strong bases.

Specific end use(s) Swimming Pool Maintenance

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
None	-----	-----	-----	-----	-----	-----

Exposure controls

Appropriate engineering controls Not normally required.

Personal protection equipment

Eye/face protection Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other) Gloves (PVC, Neoprene, or Natural rubber).



Respiratory protection Not normally required.



Thermal hazards Not normally required.

Environmental Exposure Controls Do not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties



THE PURPLE STUFF

Appearance	Liquid
Color	Blue
Odor	Not available
Odor Threshold (ppm)	Not available
pH (Value)	1.2
Melting Point/Freezing Point (°C)	~ 0 (~ 32 °F)
Boiling point/boiling range (°C)	~ 100 (~212 °F)
Flash Point (°C)	Non-combustible / Non-flammable
Evaporation Rate	Similar to Water
Flammability (solid, gas)	Not applicable
Explosive Limit Ranges	Not applicable
Vapour Pressure (mm Hg)	Similar to Water
Vapour Density (Air=1)	Similar to Water
Density (g/ml)	Not available
Specific Gravity	1.09 - 1.19
Solubility (Water)	Miscible
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	Non-combustible / Non-flammable
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt) @ 40°C	Similar to Water
Explosive properties	Not explosive
Oxidizing properties	Not oxidising
Other information	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	None anticipated.
Conditions to avoid	Incompatible materials.
Incompatible materials	Substances that react with water. Strong bases.
Hazardous decomposition product(s)	None anticipated.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Skin Contact, Eye Contact

Information on toxicological effects

Acute toxicity (calculated / estimated)	Oral: LD50 >2000 mg/kg-bw Dermal: LD50 >2000 mg/kg-bw
Irritation/Corrosivity	Causes severe skin burns and eye damage.
Sensitization	It is not a skin sensitizer.
Repeated dose toxicity	Not to be expected
Carcinogenicity	Not to be expected

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Mutagenicity	Not to be expected
Reproductive toxicity	Not to be expected

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity



THE PURPLE STUFF

Short term (estimated / calculated)

LC50 (96 hour): > 100 mg/L(fish)
EC50 (48 hour): > 100 mg/L (crustacea)
EC50 (96 hour): > 100 mg/L (algae)

Long Term

No data

Persistence and degradability

No data

Bioaccumulative potential

The product has no potential for bioaccumulation.

Mobility in soil

The product has low mobility in soil.

Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

Additional Information

None known.

SECTION 14: TRANSPORT INFORMATION

Land transport (U.S. DOT) *

UN number

UN 3265

Proper Shipping Name

Corrosive liquid, acidic, organic, n.o.s. (contains: **)

Transport hazard class(es)

8

Packing group

III

Environmental hazards

No

Special precautions for user

None assigned

* Refer to 49 CFR 173.154 for limited and consumer commodity exceptions. **Contact supplier for full proper shipping name.

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	-----	-----	-----

SARA 311/312 - Hazard Categories:

Fire Sudden Release Reactivity Immediate (acute) Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	-----	-----

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)	TPQ (Pounds)
None	-----	-----	-----	-----

Proposition 65 (California):



THE PURPLE STUFF

Chemical Name	CAS No.	Typical %wt.	Hazards
None	-----	-----	-----

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16.

Date of preparation: December 15, 2015

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

- H290: May be corrosive to metals.
- H314: Causes severe skin burns and eye damage.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Jack's Magic Products, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Jack's Magic Products, Inc. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.



SAFETY DATA SHEET

FILTER FIBER STUFF

FILE NO.: SDS-0004
MSDS DATE: 12/16/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: FILTER FIBER STUFF
SYNONYMS: NA
PRODUCT CODES: JMFIBER9, JMFIBER18, JMFIBER22, JMFIBER36, JMFIBER44

MANUFACTURER: Jack's Magic Products
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: Cellulose
CHEMICAL FAMILY: NA
CHEMICAL FORMULA: Proprietary

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

SECTION 1 NOTES: NA

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product may form combustible dust in air (during processing).

Do not eat, drink or smoke when using this product. Wear protective gloves. Wear eye/face protection.

Wear gloves and eye protection (or face shield)

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

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH HAZARDS: Hazardous in case of skin contact (irritant), of eye contact (irritant – can cause serious damage), of ingestion or inhalation (call poison center or physician if feeling irregular). Eye contact can result in corneal damage or blindness. Skin contact can produce minor inflammation and blistering. Inhalation of mist can produce irritation to gastro-intestinal or respiratory tract, characterized by slight burning, sneezing and coughing. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Components of this product contain no known Carcinogenic agents.

SECTION 3 NOTES: If product comes in contact with eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and can be done safely. Continue rinsing and consult a physician. If swallowed rinse mouth and call poison center or physician if you do not feel well.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

<u>CAS NO.</u>	<u>% WT</u>
Component A	>90
Inert	Balance

SECTION 2 NOTES: Proprietary Formulation – Specific chemical identity and/or percentage of composition has been withheld as a trade secret.



SAFETY DATA SHEET

FILTER FIBER STUFF

FILE NO.: SDS-0004
MSDS DATE: 12/16/2015

SECTION 4: FIRST AID MEASURES

EYES: Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately. *Acute symptoms after contact: No acute hazards known.*

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. 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: Rinse mouth with water. If ingested, give lots of water to drink. Do not induce vomiting unless directed to do so by medical professional. If vomiting occurs, keep head low so that stomach contents does not get into the lungs. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. *Acute symptoms after contact: None Known.*

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: None Known.*

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: No further information Available.

SECTION 4 NOTES: Always have this SDS available for medical personnel responding to a victim of exposure.

SECTION 5: FIRE-FIGHTING MEASURES

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

FLASH POINT: NA

METHOD USED: NA

AUTOIGNITION TEMPERATURE: Not Applicable

HMIS HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

PROTECTION: Inhalation Protection – Upon combustion: Fine dust can become airborne.

EXTINGUISHING MEDIA: Water in spray jet, Carbon dioxide (CO2).

UNSUITABLE EXTINGUISHING MEDIA: NA.

SPECIAL FIRE FIGHTING PROCEDURES: Gloves, safety glasses,. Protective clothing. Heat/Fire Exposure: compressed air/oxygen apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Remove containers from fire area into safe area away from heat. Do not move the load if exposed to heat.

HAZARDOUS DECOMPOSITION PRODUCTS: During fire, gases hazardous to health may be formed.

SECTION 5 NOTES: NA



SAFETY DATA SHEET

FILTER FIBER STUFF

FILE NO.: SDS-0004

MSDS DATE: 12/16/2015

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. If area is not well ventilated, add ventilation for safe occupation of the area while clean-up is conducted.

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: Do Not use compressed air to clear fiber from surfaces. Dust deposits should not be allowed to accumulate on surfaces, as they may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

SECTION 6 NOTES: Avoid open flames. Comply with all applicable federal, state, and local regulations for clean-up and disposal methods.

SECTION 7: HANDLING AND STORAGE

HANDLING: Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Do not ingest. When using do not eat, drink, smoke or use smokeless tobacco. Provide adequate ventilation. Wear appropriate protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

STORAGE: Dry powders can build static electricity charges when subject to the friction of transfer and mixing operation. Provide adequate precautions, such as electrical grounding and bonding or inert atmospheres. Store in a cool, dry, ventilated area. Keep from freezing or away from open flames/heat. Keep out of direct sunlight. 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: Always use this material in a well ventilated area to reduce the risk of explosion due to airborne fiber concentrations. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. A risk assessment should be conducted to determine the appropriate PPE.

RESPIRATORY PROTECTION: A NIOSH-approved air-purifying respirator with an appropriate cartridge 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.

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 deposit on clothing.



SAFETY DATA SHEET

FILTER FIBER STUFF

FILE NO.: SDS-0004

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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: NA

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White Fibers

ODOR: None

PHYSICAL STATE: Dry Fiber

pH AS SUPPLIED: 7.0
pH (1% Solution in H₂O): NA

BOILING POINT: NA

IGNITION POINT: 230 Deg C

FREEZING POINT: NA

VAPOR PRESSURE (kPa): NA

VAPOR DENSITY (AIR = 1): NA

SPECIFIC GRAVITY (H₂O = 1): NA

POLYMERIZATION: NA.

SOLUBILITY IN WATER: Insoluble in water.

PERCENT SOLIDS BY WEIGHT: NA

VOLATILE ORGANIC COMPOUNDS (VOC): NA

MOLECULAR WEIGHT: NA

SECTION 9 NOTES: NA

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Product is stable and non-reactive under normal conditions of use, storage and transport.

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID (STABILITY): Excessive heat or freezing. Keep away from open flames/heat.

INCOMPATIBILITY: NA.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: NA.

HAZARDOUS POLYMERIZATION: NA.

SECTION 10 NOTES: NA



SAFETY DATA SHEET

FILTER FIBER STUFF

FILE NO.: SDS-0004
MSDS DATE: 12/16/2015

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICOLOGICAL: Oral – NA
Dermal – NA
Inhalation – NA
***Conclusion:** NA.

CORROSION / IRRITATION: EYE: Causes serious eye damage.
SKIN: Causes skin irritation.
INHALATION – No adverse effects due to inhalation are expected.
***Conclusion:** Irritant to the skin. Causes serious eye damage.

RESPIRATORY OR SKIN SENSITIVITY:
SKIN: Not Sensitizing.
INHALATION: Not Sensitizing.
***Conclusion:** Not classified as sensitizing for skin or inhalation.

SPECIFIC TARGET ORGAN TOXICITY:
ORAL: No Data Available.
DERMAL: No Data Available.
INHALATION: No Data Available.

SECTION 11 NOTES: Possible transient irritation to eyes with very high contact. Non-toxic.

SECTION 12: ECOLOGICAL INFORMATION

BIODEGRADABILITY: Yes

TOXICITY TO FISH:
FRESH WATER FISH: NA
FRESH WATER INVERTEBRATES: No Data Available.
SALT WATER: No Data Available
***Conclusion:** NA.

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

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: 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. Do not allow material to drain into sewers/water supplies. Dispose in accordance with all local, state and federal laws.

SECTION 13 NOTES: NA



SAFETY DATA SHEET

FILTER FIBER STUFF

FILE NO.: SDS-0004

MSDS DATE: 12/16/2015

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: Not Regulated as a hazardous material.

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.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

WHMIS: Not determined.

TSCA: Listed on inventory.

OSHA: 29 CFR 1910.1001-1050

CAS 75-21-8 Cancer, Reproductive Toxicology, Mutagenicity, Central nervous system, Skin sensitization, Skin irritation, Eye irritation, respiratory tract irritation, Acute toxicity, Flammability.

STATE REGULATIONS:

PA, NJ & MA: Listed.

INTERNATIONAL COMPLIANCE REGULATIONS:

EU Legislation: 9004-34-6 Classified as non-hazardous.

SECTION 15 NOTES: NA.

SECTION 16: OTHER INFORMATION

REFERENCES: Information based on classification according to C.C.P.L. (05/2014)

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

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