



SAFETY DATA SHEET

STAIN SOLUTION #1

FILE NO.: SDS-0008
MSDS DATE: 12/16/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: STAIN SOLUTION #1
SYNONYMS: STAIN ID KIT – STAIN SOLUTION #1
PRODUCT CODES: NA

MANUFACTURER: Jack's Magic
DIVISION: FL
ADDRESS: Largo, FL

CHEMTREC (INCIDENT REPORT) PHONE: 800-424-9300
SECONDARY EMERGENCY PHONE: 727-560-3177
FAX: 727-532-0250

CHEMICAL NAME: STAIN SOLUTION #1
CHEMICAL FAMILY: NA
CHEMICAL FORMULA: Proprietary

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

SECTION 1 NOTES: NA

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May cause irritation to skin, eyes, and respiratory tract.

ROUTES OF ENTRY: SKIN CONTACT, INHALATION, INGESTION.

HAZARDOUS IDENTIFICATION:

Classification of substance or mixture: Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements: Not a hazardous substance or mixture.

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH HAZARDS:

Inhalation: May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

Eye: Contact may cause irritation.

Skin: Irritation may occur from prolonged skin contact.

Ingestion: Low level of toxicity by ingestion. Diarrhea may occur by ingestion of large quantities.

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.

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.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

<u>CAS NO.</u>	<u>% WT</u>
Component A	>80
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: NA.*

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin with soap and water. 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: NA.*

INGESTION: **Material regarded as safe for addition to food. Induce vomiting immediately as directed by medical personnel.** If large quantities of this material are swallowed or if irritation or other concerns persist, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. *Acute symptoms after contact: NA.*

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: NA.*

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically and supportively.

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: Not Available

HMIS HAZARD CLASSIFICATION

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 0

PROTECTION: NA

EXTINGUISHING MEDIA: Use any means suitable for extinguishing surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Gloves, safety glasses, Protective clothing. Do not release runoff from fire control methods to sewers or waterways.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product, like most powdered materials, has a potential to ignite or explode, flare. Cool tanks/containers with water spray/remove them into safe area away from heat.

HAZARDOUS DECOMPOSITION PRODUCTS: Emits toxic fumes on combustion.

SECTION 5 NOTES: NA



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SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL / LEAK PROCEDURES: Ventilate area of leak or spill. Avoid breathing dust, mist or vapors. Evacuate personnel, not involved in clean-up, to safe areas. Wear appropriate personal protective equipment as specified in section 8.

SMALL SPILLS: Sweep up and containerize for reclamation or disposal. Avoid dust formation.

LARGE SPILL CONTAINMENT: For large spills, dike far ahead of spill for later disposal. Avoid dust formation. Do not release into sewers or waterways.

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. Vacuuming or wet sweeping may be used to avoid dust dispersal.

SECTION 6 NOTES: Follow applicable OSHA regulations. (29 CFR 1910.120).

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. Containers of this material may be hazardous when empty since they retain residues (dust, solids); observe all warnings and precautions listed for the product.

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. Protect against physical damage. Isolate from incompatible substances. 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: 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. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (sec. 2) Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling its source.

RESPIRATORY PROTECTION: Seek professional advice prior to respiratory selection and use. Follow OSHA respiratory regulations (29 CFR 1920.134) and, if necessary MSHA/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. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. Follow all OSHA requirements regarding the use and certification before using respirators.



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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. Refer to OSHA regulations in 29 CFR 1910.133.

SKIN & BODY PROTECTION: Wear appropriate chemical impervious clothing, gloves, suits 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. Chemicals in this product are not listed by ACGIH or OSHA with exposure limits.

SECTION 8 NOTES: NA

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White Crystalline Solid

ODOR: Odorless

PHYSICAL STATE: Solid.

pH AS SUPPLIED: 5-8 (Solution)

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: NA.

SOLUBILITY IN WATER: Complete

PERCENT SOLIDS BY WEIGHT: 100%

PERCENT VOLATILE: NA

VOLATILE ORGANIC COMPOUNDS (VOC): NA

MOLECULAR WEIGHT: NA

SECTION 9 NOTES: NA



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SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Promotes combustion. Substance has basic reaction.

STABILITY: Stable at normal conditions and temperatures. Stable in closed containers under normal storage and handling conditions.

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

INCOMPATIBILITY: Incompatible with strong oxidizing agents, acids.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: NA.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 10 NOTES: NA

SECTION 11: TOXICOLOGICAL INFORMATION

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

SKIN: May cause slight skin irritation.

EYES: May cause eye irritation, that if untreated can cause severe and permanent damage.

INHALATION: May cause slight respiratory irritation.

INGESTION: Ingestion may cause irritation and burns from the mouth to the stomach. Ingesting massive amounts may cause ulcerations, vomiting, and in extreme cases shock leading to death.

ACUTE TOXICOLOGICAL: No Available Data.

MUTAGENICITY: NA

TERATOGENICITY: NA

CORROSION / IRRITATION: NA

RESPIRATORY OR SKIN SENSITIVITY (Toxicity): No Available Data

SPECIFIC TARGET ORGAN TOXICITY: NA

SECTION 11 NOTES: NA

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: No Data Available.

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

MOBILITY: Not considered to be mobile.

RESULTS OF PBT and vPvB ASSESSMENT: No Data Available

CHEMICAL OXYGEN DEMAND: No Data Available

SECTION 12 NOTES: NA



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SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Contact a licensed contractor for detailed recommendations. Follow applicable Federal (U.S. EPA), State and local regulations. (40 CFR 261.3)

SECTION 13 NOTES: NA

SECTION 14: TRANSPORT INFORMATION

NOT REGULATED FOR TRANSPORTATION.

U.S. DEPARTMENT OF TRANSPORTATION:

PROPER SHIPPING NAME: NA
HAZARD CLASS: NA
ID NUMBER: NA
PACKING GROUP: NA
LABEL STATEMENT: NA
LIMITED QUANTITIES: NA

WATER TRANSPORTATION:

PROPER SHIPPING NAME: NA
HAZARD CLASS: NA
ID NUMBER: NA
PACKING GROUP: NA
LABEL STATEMENT: NA
LIMITED QUANTITIES: NA

RAIL (RID) TRANSPORTATION:

PROPER SHIPPING NAME: NA
HAZARD CLASS: NA
ID NUMBER: NA
PACKING GROUP: NA
LABEL STATEMENT: NA
LIMITED QUANTITIES: NA

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

PROPER SHIPPING NAME: NA
HAZARD CLASS: NA
ID NUMBER: NA
PACKING GROUP: NA
LABEL STATEMENT: NA
LIMITED QUANTITIES: NA

OTHER AGENCIES: NA

SECTION 14 NOTES: NOT REGULATED FOR TRANSPORTATION



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SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All components in this product are listed in TSCA inventory list.

SARA (SECTION 302-RQ): NOT REGULATED

SARA (SECTION 302-TPQ): NOT REGULATED

SARA (SECTION 313): NOT REGULATED (40 CFR 372)

SARA (SECTION 311/312): No SARA hazards listed (40 CFR 370)

CLEAR AIR ACT: NOT LISTED as a Hazardous.

CLEAN WATER ACT: NOT LISTED as a Hazardous Substance.

CALIFORNIA PROP 65: This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

INTERNATIONAL REGULATIONS:

European Legislation: NA.

SECTION 15 NOTES: NA

SECTION 16: OTHER INFORMATION

REFERENCES: Information based on classification according to I.C. (06/2015).

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

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SAFETY DATA SHEET

STAIN SOLUTION #2

FILE NO.: SDS-0009
MSDS DATE: 12/16/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: STAIN SOLUTION #2
SYNONYMS: STAIN ID KIT – STAIN SOLUTION #2
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: STAIN SOLUTION #2
CHEMICAL FAMILY: Acid
CHEMICAL FORMULA: Proprietary

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

SECTION 1 NOTES: NA

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: WARNING! This product is a strong acid and causes severe irritation or burns upon contact with the 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. May cause irritation to skin, eyes, and respiratory tract.

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

HAZARDOUS IDENTIFICATION:

Classification of substance or mixture: AcidSolution.

GHS Label elements, including precautionary statements: WARNING: Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects. KEEP AWAY FROM CHILDREN. Wear protective gloves/eye protection/face protection. If on skin wash with plenty of soap and water. If in eyes rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Wash skin thoroughly after handling. Avoid release into environment. Immediately call a Poison Center or doctor/physician if swallowed drink generous amount of water, call a poison center or doctor/physician if you feel unwell.

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH HAZARDS:

Inhalation: Particles may cause irritation to the nose and respiratory tract. Symptoms may include coughing and shortness of breath.

Eye: Contact may cause severe irritation and burns. Scarring may be permanent.

Skin: Contact may cause severe irritation and 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).

CHRONIC HEALTH HAZARDS:

CARCINOGENIC EFFECTS: IARC, NTP, and OSHA do not list any chemicals in this product as a carcinogen.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None Known

SECTION 2 NOTES: NA



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

<u>CAS NO.</u>	<u>% WT</u>
Component A	>80
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: Do not allow victim to rub eyes or keep eyes tightly shut. Rinse immediately with plenty of water for 15 minutes including under eyelids. 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: NA.*

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes, if not stuck to skin. Wash skin with soap and water. 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: NA.*

INGESTION: Do not induce vomiting immediately as directed by medical personnel. If victim is conscious and alert, have person drink 1 to 2 glasses of water to dilute. If large quantities of this material are swallowed or if irritation or other concerns persist, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. *Acute symptoms after contact: NA.*

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: NA.*

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically and supportively.

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: Not combustible

HMIS HAZARD CLASSIFICATION

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 0

PROTECTION: NA

EXTINGUISHING MEDIA: Use any means suitable for extinguishing surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA: No unsuitable extinguishing media known.

SPECIAL FIRE FIGHTING PROCEDURES: Gloves, safety glasses, Protective clothing. Do not release runoff from fire control methods to sewers or waterways. Heat/fire exposure: due to toxic fumes use compressed (positive pressure) air/oxygen apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Upon combustion or heated product will emit toxic gases. Cool tanks/containers with water spray/remove them into safe area away from heat.

HAZARDOUS DECOMPOSITION PRODUCTS: Emits toxic fumes on combustion. Sulfur oxide(s), nitrogen oxide(s), and ammonia gas.

SECTION 5 NOTES: NA



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SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL / LEAK PROCEDURES: Ventilate area of leak or spill. Avoid breathing dust, mist or vapors. Evacuate personnel, not involved in clean-up, to safe areas. Stay upwind while containing and cleaning spill. Wear appropriate personal protective equipment as specified in section 8.

SMALL SPILLS: Do not sweep up or otherwise disperse into air. Avoid dust formation. Carefully scoop or vacuum and collect into sealed container for disposal.

LARGE SPILL CONTAINMENT: For large spills, dike far ahead of spill for later disposal. Avoid dust formation. Do not release into sewers or waterways.

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. Prevent dust cloud formation. No naked flames.

ENVIRONMENTAL PRECAUTIONS: Prevent spreading concentrate solution over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Contain source of spillage/leak. 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. Knock down or dilute dust cloud with water spray.

METHODS FOR CLEAN-UP: Keep in suitable, closed containers for disposal. Plug the leak(s), cut off supply of spill. Vacuuming or wet sweeping may be used to avoid dust dispersal. Rinse contaminated surfaces with excess of water or alkaline solution (sodium bicarbonate or lime). Wash clothing and equipment after handling.

SECTION 6 NOTES: Follow applicable OSHA regulations. (29 CFR 1910.120) and all federal, state and local regulations.

SECTION 7: HANDLING AND STORAGE

HANDLING: Avoid raising dust. 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. Containers of this material may be hazardous when empty since they retain residues (dust, solids); observe all warnings and precautions listed for the product.

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) and sealed container. Protect against physical damage. Isolate from incompatible substances. Meet all state and local legal requirements.

SUITABLE PACKAGING MATERIAL: Stainless steel, polyethylene, polypropylene.

UNSUITABLE PACKAGING MATERIAL: Steel.

OTHER PRECAUTIONS: Keep away from heat sources, combustible materials, oxidizing agents, strong acids, strong bases, metals, organic materials, water/moisture. 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: NA

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL ADVICE: Avoid dust cloud production. Keep away from open flames/heat. 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. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (sec. 2) Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling its source.



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RESPIRATORY PROTECTION: Seek professional advice prior to respiratory selection and use. Dust production: dust mask with filter type P2. Follow OSHA respiratory regulations (29 CFR 1920.134) and, if necessary MSHA/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. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. Follow all OSHA requirements regarding the use and certification before using respirators.

EYE PROTECTION: Wear chemical splash goggles (best for dust) 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. Refer to OSHA regulations in 29 CFR 1910.133.

SKIN & BODY PROTECTION: Wear appropriate chemical impervious clothing, gloves, suits and boots whenever there is potential for skin contact with product (PVC or Rubber). Due to dust production, head and neck protection is also recommended. 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. Emergency eyewash stations and safety/quick drench showers in areas where product is handled or stored is recommended.

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. Chemicals in this product are not listed by ACGIH or OSHA with exposure limits.

SECTION 8 NOTES: NA

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White Orthorhombic Crystals

ODOR: Odorless

PHYSICAL STATE: Solid.

PARTICLE SIZE: NA

pH AS SUPPLIED: NA

pH (1% Solution in H₂O): 1.18 @77 deg F (Solution)

BOILING POINT: Decomposes @ 205 deg C

MELTING POINT: 401 deg F

FREEZING POINT: NA

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

VAPOR DENSITY (AIR = 1): NA

SPECIFIC GRAVITY (H₂O = 1): 2.15 g/cc

EVAPORATION RATE: NA

DECOMPOSITION TEMPERATURE: NA

POLYMERIZATION: NA.



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SOLUBILITY IN WATER: 6.5 parts water @ 32 deg F; 2 parts water @ 175 deg F

PERCENT SOLIDS BY WEIGHT: 100%

PERCENT VOLATILE: NA

VOLATILE ORGANIC COMPOUNDS (VOC): NA

MOLECULAR WEIGHT: NA

SECTION 9 NOTES: NA

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Product can undergo a violent or explosive reaction with contact with chlorine, metal nitrates + heat, metal nitrites + heat, and fuming nitric acid.

STABILITY: Unstable on exposure to heat and moisture. Product is stable when dry but it slowly hydrolyzes in solution to form ammonium bisulfate.

CONDITIONS TO AVOID (STABILITY): Avoid raising dust. Exposure to moisture or incompatibles. **See reactivity statement above.**

INCOMPATIBILITY: Incompatible with combustible materials, strong oxidizing agents, strong acids, strong bases, metals, organic materials, water/moisture, steel..

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Thermal oxidative decomposition of acids can produce nitrogen oxide(s), sulfur oxide(s), and ammonia gas.

HAZARDOUS POLYMERIZATION: Does not occur.

SECTION 10 NOTES: NA

SECTION 11: TOXICOLOGICAL INFORMATION

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

SKIN: May cause skin irritation.

EYES: May cause severe eye irritation, that if untreated can cause severe and permanent damage.

INHALATION: May cause respiratory irritation.

INGESTION: Ingestion may cause irritation and burns from the mouth to the stomach.

ACUTE TOXICOLOGICAL:

Route of Exposure	Parameter	Value	Species
Oral	LD50	3160 mg/kg	Rat
	LD50	1312 mg/kg	Mouse

MUTAGENICITY: NA

TERATOGENICITY: NA

CORROSION / IRRITATION:

Route of Exposure	Parameter	Value	Species
Eye	NA	20 mg once	Rabbit (moderate irritation)
	NA	250 mg @24 hrs	Rabbit (severe irritation)
Dermal	NA	500 mg @24 hrs	Rabbit (severe irritation)
	NA	4% solution intermittent for 5 days	Human (mild irritation)
Inhalation	NA	NA	NA



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RESPIRATORY OR SKIN SENSITIVITY (Toxicity):

SPECIFIC TARGET ORGAN TOXICITY: NA

SECTION 11 NOTES: NA

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Data not Available.

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

MOBILITY: No Data Available.

RESULTS OF PBT and vPvB ASSESSMENT: No Data Available

CHEMICAL OXYGEN DEMAND: No Data Available

SECTION 12 NOTES: NA

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Contact a licensed contractor for detailed recommendations. Follow applicable Federal (U.S. EPA), State and local regulations. (40 CFR 261.3). Different types of waste must not be mixed together.

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



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STAIN SOLUTION #2

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LIMITED QUANTITIES: 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

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Listed on inventory, not in section 12b. Do not have a SNUR.
SARA (SECTION 302-RQ): No RQ.
SARA (SECTION 302-TPQ): No TPQ.
SARA (SECTION 313): Not reportable under section 313.
SARA (SECTION 311/312): NA
CLEAR AIR ACT: Does not contain chemicals listed as a Class 1 or Class 2 Ozone depleters.
CLEAN WATER ACT: Does not contain any chemicals listed as Hazardous Substances, Priority Pollutants, Toxic Pollutants.
OSHA: Does not contain any chemicals considered Highly Dangerous by OSHA.

STATE REGULATIONS:

California: Contains no chemicals on the No Significant Risk Level list.
New Jersey: Contains chemical listed on Right to Know List.

INTERNATIONAL REGULATIONS:

EUROPEAN LEGISLATION:
European Labeling: Hazard symbols: XI.
Canada DSL/NDSL List: This product has a WHMIS classification of E. Is not listed on Canada's Ingredient Disclosure List.

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

STAIN SOLUTION #3

FILE NO.: SDS-0010
MSDS DATE: 12/16/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: STAIN SOLUTION #3
SYNONYMS: STAIN ID KIT – STAIN SOLUTION #3
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: STAIN SOLUTION #3
CHEMICAL FAMILY: NA
CHEMICAL FORMULA: Proprietary

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

SECTION 1 NOTES: NA

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May cause irritation to skin, eyes, and respiratory tract.

ROUTES OF ENTRY: SKIN CONTACT, INHALATION, INGESTION.

HAZARDOUS IDENTIFICATION:

Classification of substance or mixture: Oxidizer Solution.

GHS Label elements, including precautionary statements: DANGER! May intensify fire; oxidizer. Harmful if swallowed. Causes serious eye damage. KEEP AWAY FROM CHILDREN. Keep away from heat/sparks/open flames/hot surfaces – No Smoking. Wear protective eye protection/face protection. Immediately call a Poison Center or doctor/physician. If in eyes rinse cautiously with water for several minutes. Remove contacts, if present and easy to do. Continue rinsing. If product gets in your mouth, rinse immediately with water. If swallowed drink generous amount of water, call a poison center or doctor/physician if you feel unwell.

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH HAZARDS:

Inhalation: May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

Eye: Contact may cause irritation.

Skin: Irritation may occur from prolonged skin contact.

Ingestion: Low level of toxicity by ingestion.

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

SECTION 2 NOTES: Heat may cause pressure rise in containers: explosion risk. Harmful to fish. Toxic to invertebrates (Daphnia).



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

<u>CAS NO.</u>	<u>% WT</u>
Component A	>80
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: NA.*

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin with soap and water. 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: NA.*

INGESTION: Do not induce vomiting immediately as directed by medical personnel. If victim is conscious and alert, have person drink 1 to 2 glasses of water to dilute. If large quantities of this material are swallowed or if irritation or other concerns persist, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband. *Acute symptoms after contact: NA.*

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: NA.*

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically and supportively.

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: Not Available

HMIS HAZARD CLASSIFICATION

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 0

PROTECTION: NA

EXTINGUISHING MEDIA: Water. Use any means suitable for extinguishing surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA: No unsuitable extinguishing media known.

SPECIAL FIRE FIGHTING PROCEDURES: Gloves, safety glasses, Protective clothing. Do not release runoff from fire control methods to sewers or waterways. Dust cloud production: compressed air/oxygen apparatus. Heat/fire exposure: compressed air/oxygen apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Upon combustion CO and CO₂ are formed. This product, like most powdered materials, has a potential to ignite or explode, flare. Cool tanks/containers with water spray/remove them into safe area away from heat.

HAZARDOUS DECOMPOSITION PRODUCTS: Emits toxic fumes on combustion.

SECTION 5 NOTES: NA



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SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL / LEAK PROCEDURES: Ventilate area of leak or spill. Avoid breathing dust, mist or vapors. Evacuate personnel, not involved in clean-up, to safe areas. Wear appropriate personal protective equipment as specified in section 8.

SMALL SPILLS: Sweep up and containerize for reclamation or disposal. Avoid dust formation.

LARGE SPILL CONTAINMENT: For large spills, dike far ahead of spill for later disposal. Avoid dust formation. Do not release into sewers or waterways.

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. Prevent dust cloud formation. No naked flames.

ENVIRONMENTAL PRECAUTIONS: Prevent spreading concentrate solution over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Contain source of spillage/leak. 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. Knock down or dilute dust cloud with water spray.

METHODS FOR CLEAN-UP: Keep in suitable, closed containers for disposal. Plug the leak(s), cut off supply of spill. Vacuuming or wet sweeping may be used to avoid dust dispersal. Rinse contaminated surfaces with excess of water. Wash clothing and equipment after handling.

SECTION 6 NOTES: Follow applicable OSHA regulations. (29 CFR 1910.120).

SECTION 7: HANDLING AND STORAGE

HANDLING: Avoid raising dust. 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. Containers of this material may be hazardous when empty since they retain residues (dust, solids); observe all warnings and precautions listed for the product.

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. Protect against physical damage. Isolate from incompatible substances. Meet all state and local legal requirements.

SUITABLE PACKAGING MATERIAL: Stainless steel, aluminum, polyethylene, polypropylene.

UNSUITABLE PACKAGING MATERIAL: Steel.

OTHER PRECAUTIONS: Keep away from heat sources, combustible materials, oxidizing agents, strong acids, strong bases, metals, organic materials, water/moisture. 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: NA

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL ADVICE: Avoid dust cloud production. Keep away from open flames/heat. 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. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (sec. 2) Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling its source.

RESPIRATORY PROTECTION: Seek professional advice prior to respiratory selection and use. Dust production: dust mask with filter type P2. Follow OSHA respiratory regulations (29 CFR 1920.134) and, if necessary MSHA/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



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circumstances where an air-purifying respirator may not provide adequate protection. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. Follow all OSHA requirements regarding the use and certification before using respirators.

EYE PROTECTION: Wear chemical splash goggles (best for dust) 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. Refer to OSHA regulations in 29 CFR 1910.133.

SKIN & BODY PROTECTION: Wear appropriate chemical impervious clothing, gloves, suits and boots whenever there is potential for skin contact with product (PVC or Rubber). Due to dust production, head and neck protection is also recommended. 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. Chemicals in this product are not listed by ACGIH or OSHA with exposure limits.

DNEL – Workers:

Effect level (DNEL/DMEL)	Type	Value
DNEL	Long-term local effects inhalation	5 mg/m ³
DNEL	Long-term local effects dermal	12.8 mg/cm ²
DNEL	Acute local effects dermal	12.8 mg/cm ²

DNEL – General Population:

Effect level (DNEL/DMEL)	Type	Value
DNEL	Long-term local effects dermal	6.4 mg/cm ²
DNEL	Acute local effects dermal	6.4 mg/cm ²

PNEC:

Compartments	Value
Fresh water	0.035 mg/l
Marine water	0.035 mg/l
Aqua (intermittent releases)	0.035 mg/l
STP	16.24 mg/l

SECTION 8 NOTES: NA

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White Crystalline Solid

ODOR: Odorless

PHYSICAL STATE: Solid.

PARTICLE SIZE: 250-1000 µm

pH AS SUPPLIED: 10.4 – 10.6 (Solution) @ 140 g/l @20 deg C

pH (1% Solution in H2O): NA

BOILING POINT: NA

MELTING POINT: NA



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FREEZING POINT: NA
VAPOR PRESSURE (kPa): NA
VAPOR DENSITY (AIR = 1): NA
SPECIFIC GRAVITY (H₂O = 1): Solid
EVAPORATION RATE: NA
DECOMPOSITION TEMPERATURE: >75 deg C
POLYMERIZATION: NA.
SOLUBILITY IN WATER: Complete
PERCENT SOLIDS BY WEIGHT: 100%
PERCENT VOLATILE: NA
VOLATILE ORGANIC COMPOUNDS (VOC): NA
MOLECULAR WEIGHT: NA
SECTION 9 NOTES: NA

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Promotes combustion. Substance has basic reaction.

STABILITY: Unstable on exposure to heat and moisture. Stable at normal conditions and temperatures. Stable in closed containers under normal storage and handling conditions.

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

INCOMPATIBILITY: Incompatible with combustible materials, strong oxidizing agents, strong acids, strong bases, metals, organic materials, water/moisture, steel..

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Decomposes slowly: oxidation resulting in increased fire or explosion risk. This reaction is accelerated on exposure to water/moisture and rise in temperatures. Upon combustion CO and CO₂ are formed.

HAZARDOUS POLYMERIZATION: NA.

SECTION 10 NOTES: NA

SECTION 11: TOXICOLOGICAL INFORMATION

SIGNS AND SYMPTOMS OF OVEREXPOSURE:
SKIN: May cause slight skin irritation.
EYES: May cause eye irritation, that if untreated can cause severe and permanent damage.
INHALATION: May cause slight respiratory irritation.
INGESTION: Ingestion may cause irritation and burns from the mouth to the stomach. Ingesting massive amounts may cause ulcerations, vomiting, and in extreme cases shock leading to death.

ACUTE TOXICOLOGICAL:

Route of Exposure	Parameter	Method	Value	Exposure time	Species	Gender
Oral	LD50	Equivalent to OECD 401	1034 mg/kg	NA	RAT	Male/Female
Dermal	LD50	Equivalent to OECD 402	>2000 mg/kg	NA	RABBIT	Male/Female
Inhalation	NA	NA	NA	NA	NA	NA

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



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MUTAGENICITY: NA

TERATOGENICITY: NA

CORROSION / IRRITATION:

Route of Exposure	Result	Method	Exposure time	Time point	Species	Value Determination
Eye	Highly irritating	EPA OPP 81-4	NA	1; 24; 48; 72 hours	Rabbit	Experimental value
Skin	Not irritating	Other	4 h	1; 2; 3; 4; 7; 10; 14 days	Rabbit	Experimental value days
Inhalation	NA	NA	NA	NA	NA	No data

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

RESPIRATORY OR SKIN SENSITIVITY (Toxicity):

Route of Exposure	Result	Method	Exposure time	Time point	Species	Gender
Skin	Not sensitizing	Buehler test	NA	48 hours	Guinea pig	Male/female
Inhalation	No Data	No Data	No Data	No Data	No Data	No data available

SPECIFIC TARGET ORGAN TOXICITY: NA

SECTION 11 NOTES: NA

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:

Type	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water
Acute toxicity fishes	LC50	US EPA	70.7 mg/l	48 h	Pimephales promelas	Semi-static	Fresh water
Acute toxicity invertibrates	EC50	US EPA	4.9 mg/l	48 h	Daphnia pulex	Semi-static	Fresh water

* Conclusion Harmful to fishes Toxic to invertebrates (Daphnia) pH shif

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

MOBILITY: Low potential for absorbtion in soil. Not considered to be mobile.

RESULTS OF PBT and vPvB ASSESSMENT: The criteria of PBT and vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006 do not apply to inorganic substances.

CHEMICAL OXYGEN DEMAND: No Data Available

SECTION 12 NOTES: NA



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SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Contact a licensed contractor for detailed recommendations. Follow applicable Federal (U.S. EPA), State and local regulations. (40 CFR 261.3). Different types of waste must not be mixed together.

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 inner 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 inner 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 inner 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

LIMITED QUANTITIES: 2.5 kg.

OTHER AGENCIES: NA

SECTION 14 NOTES: NA



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SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): NA.
SARA (SECTION 302-RQ): NA
SARA (SECTION 302-TPQ): NA
SARA (SECTION 313): NA
SARA (SECTION 311/312): NA
CLEAR AIR ACT: NA.
CLEAN WATER ACT: NA.

INTERNATIONAL REGULATIONS:

EUROPEAN LEGISLATION:

European Drinking Water Standards: Maximum concentration in drinking water: 200 mg/l (sodium) (Directive 98/83/EC).

REACH Registration: The transition time according to REACH regulation, article 23 in not yet expired.

Volatile organic Compounds (VOC): Not applicable.

GERMANY LEGISLATION:

TA-LUFT: TA-Luft Klasse 5.2.1

WGK: 1; Classified water polluting in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 2)

NETHERLANDS LEGISLATION:

Waste identification: LWCA (the Netherlands): KGA category 06

Waterbezwaarlijkheid: 7

SECTION 15 NOTES: NA

SECTION 16: OTHER INFORMATION

REFERENCES: Information based on classification according to OCI Chem (08/2003).

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

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