



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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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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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.



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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.



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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

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