

MATERIAL SAFETY DATA SHEET

N/A = Not Applicable

(Prepared According to 29 CFR 1910.1200)

Prepared by: DA
Date Prepared 08-01-10

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

ID #: CFS-GroutRejuvenator

PRODUCT NAME: **GROUT REJUVENATOR** PRODUCT USE/CLASS: Grout Cleaner

HMS
Hazardous Materials
Identification System
Health 2

MANUFACTURED FOR: M3 Technologies, Inc.

CONTACT: Chad Schmidt

ADDRESS: 57 Lamberts Lane, Cohasset, MA 02025

TELEPHONE: 781-383-3134

Flammability 0

Reactivity 0

EMERGENCY TELEPHONE: (CHEMTREC): 800-424-9300

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	% BY WEIGHT
Pentasodium Triphosphate	7758-29-4	7-13
Sodium Hypochlorite	7681-52-9	3-7
Sodium Hydroxide	1310-73-2	1-5

SECTION 3 - HAZARDS IDENTIFICATION

PHYSICAL STATE: Gel

EMERGENCY OVERVIEW: WARNING! CAUSES EYE AND SKIN IRRITATION. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

ROUTES OF ENTRY: Skin contact, eye contact, inhalation, ingestion

POTENTIAL ACUTE HEALTH EFFECTS:

EYES: Irritating to eyes.

SKIN: Irritating to the skin.

INHALATION: None known.

INGESTION: None known.

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention.

SKIN CONTACT: In case of contact, immediately flush skin with plenty of water. Continue to rinse at least 10 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Clean shoes thoroughly before reuse. Get medical attention.

INHALATION: No special measure required.

INGESTION: Get medical attention if symptoms occur.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A

FLAMMABLE LIMITS: N/A

NFPA HAZARD RATING H F R C (0=LEAST, 4=EXTREME) H = 2 F = 0 R = 0

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:

Decomposition products may include:

phosphorus oxides

halogenated compounds

metal oxides

PROPER SHIPPING NAME: TOXIC SOLID, ORGANIC, N.O.S. (CONTAINS POTASSIUM OX-ALATE)

EXTINGUISHING MEDIA: Use extinguishing agent suitable for the surrounding fire. Dyke area of fire to prevent runoff. No specific fire or explosion hazard.

SPECIAL FIRE FIGHTING EQUIPMENT: Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Use water rinse for final clean-up.

LARGE SPILL: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water.

SECTION 7 - SAFE HANDLING AND STORAGE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep up and place in appropriate waste disposal container. Rinse area with water.

WASTE DISPOSAL METHOD: Dispose of in accordance with state and local regulations.

OTHER PRECAUTIONS: Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

STORAGE: Keep out of reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 45°C.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use in well ventilated area. No special protection is required.

VENTILATION:

LOCAL EXHAUST: If available SPECIAL: None

MECHANICAL: If available OTHER: None

PROTECTIVE GLOVES: Use chemical-resistant, impervious gloves.

EYE PROTECTION: Glasses, goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: No protective equipment is needed under normal use conditions.

WORK HYGENIC PRACTICES: Use common sense and care around chemicals. Never mix chemicals. Consult your supervisor for other practices.

OTHER SPECIAL REQUIREMENTS: None

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL STATE: Gel

BOILING POINT: >100°C

COLOR: Green

ODOR: CITRUS

Ph: 13.1 (conc. (%w/w); 100%)

MELTING POINT: N/A

FREEZING POINT: N/A

VAPOR DENSITY: 1.12

VAPOR PRESSURE: N/A

VAPOR DENSITY: N/A

ODOR THRESHOLD: N/A

EVAPORATION RATE: N/A

VISCOSITY: Dynamic: 1200 mPA's (1200cP)

DISPERSIBILITY PROPERTIES: N/A

SOLUBILITY: Easily soluble in hot water. Soluble in cold water.

SECTION 10 – STABILITY and REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID:

INCOMPATIBLE MATERIALS TO AVOID: Extremely reactive or incompatible with acids. Slightly reactive or incompatible with organic materials. Mixing this product with acid or ammonia releases chlorine gas.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

HAZARDOUS POLYMERIZATION: Under normal conditions of storage and use, hazardous polymerization will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

POTENTIAL ACUTE HEALTH EFFECTS:

EYES: Severely irritating to eyes.

SKIN: Severely irritation to the skin.

INHALATION: None known.

INGESTION: None known.

POTENTIAL CHRONIC HEALTH EFFECTS:

Carcinogenic Effects: None known.

Mutagenic effects: None known

Teratogenic Effects: Non known

Reproductive Effects: None known

Sensitization to Product: None known

Synergistic Products (toxicologically): N/A

TOXICITY DATA:

<u>Product Name/Ingredient</u>	<u>Test</u>	<u>Route</u>	<u>Result</u>	<u>Species</u>
Sodium Hydroxide	LD50	Dermal	>2000 mg/kg	Rabbit
	LD50	Dermal	1350 mg/kg	Rabbit
	LD50	Oral	500 mg/kg	Rabbit
	LD50	Oral	300 to 500 mg/kg	Rat
	LDLo	Oral	500 mg/kg	Rabbit
Sodium Hypochlorite	LD50	Dermal	>1000 mg/kg	Rabbit
	LD50	Oral	8200 mg/kg	Rat
	LD50	Oral	5800-6800 mg/kg	Mouse
	LD50	Oral	5800 mg/kg	Mouse
	LD50	Inhalation	>10500 mg/m ³	Rat
Triphosphoric Acid, Pentasodium Salt	LD50	Dermal	>4640 mg/kg	Rabbit
	LD50	Oral	3120 mg/kg	Rat
	LD50	Oral	3100 mg/kg	Mouse

OTHER ADVERS EFFECTS:

TARGET ORGANS: Contains material which may cause damage to lungs, upper respiratory tract.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: N/A

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: Diluted product can be flushed to sanitary sewer. Discard empty container in trash in accordance with federal, state and local environmental control regulations.

SECTION 14 – TRANSPORT INFORMATION

Domestic (Land, D.O.T.)

WHMIS: Class D-2B: Material causing other toxic effects – Toxic

Canada Inventory: All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

SECTION 15 – OTHER REGULATORY INFORMATION

Hazardous Material

Information System (USA): Health 2 Flammability 0 Physical Hazards 0

Nations Fire Protection Association (USA): Health 2 Flammability 0 Physical Hazards 0

SECTION 16 – OTHER INFORMATION

Disclaimer: No representation or warranty, either expressed or implied, of merchantability, fitness for a particular purpose, or any other nature, is made with respect to information concerning the product referred to in this document. The information contained herein is to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, it is impossible to foresee every health effect or exposure risk incurred by the used of this product. All chemical present unknown health hazards and should be used with caution. The information and recommendations contained herein are presented in good faith and are supplied pursuant to 29 CFR 1910.1200. The user should review this information in conjunction with their knowledge of the application intended to determine the suitability of this product for such purpose. In no event will the supplier be responsible for any damage so any nature whatsoever, resulting from the use, reliance upon, or the misuse of this information. Further, it is the direct responsibility of the user to comply with all applicable Federal, state and local regulations governing the use and disposal of this material.

LEGEND: N/A. - Not Available N/E - Not Established N/D - Not Determined