

SAFETY DATA SHEET

Mold and Mildew Stain Remover Solution

FILE NO.:
MSDS DATE: 05/29/15

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MMR: Mold and Mildew Stain Remover
SYNONYMS: None
PRODUCT CODES:

MANUFACTURER: Healthy Home Solutions, LLC.
DIVISION:
ADDRESS: 966 Lambrecht Rd
Frankfort, IL 60423

EMERGENCY PHONE: INT. 1-800-424-9300 Chemtrec. (680702)
USA 1-800-424-9300 Chemtrec. (690702)

OTHER CALLS: 1-708-441-7982
FAX PHONE: 1-815-277-5217

CHEMICAL NAME: NA
CHEMICAL FAMILY: Sodium Hypochlorite
CHEMICAL FORMULA: NaOC

SECTION 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

OSHA Hazards:
Combustible Liquid

Target Organ:
Skin, Eyes, Nose

GHS Classification
Skin Irrit. 2 H315
Eye Dam. 1 H318
Aquatic Acute 2 H401

GHS Label elements, including precautionary statements



Signal word:
Hazard statement(s):

Danger
H315 – Causes skin irritation
H318 – Causes serious eye damage
H401 – Toxic to aquatic life
Harmful if swallowed
Causes severe skin burns

Precautionary statement(s):

P264 - Wash exposed skin thoroughly after handling
P273 - Avoid release to the environment
P280 - Wear protective gloves, protective clothing, eye protection, face protection
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P332+P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing
P501 - Dispose of contents/container to comply with local, state and federal regulations

HMIS Classification
Health hazard: 3
Chronic Health Hazard: ND
Flammability: 0
Physical hazards: 1

NFPA Rating
Health hazard: 3

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Fire: 0
Reactivity Hazard: 1

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: Causes serious eye damage.
Ingestion: May be harmful if swallowed.

CARCINOGENICITY

OSHA: (NO) ACGIH: (NO) NTP: (NO) IARC: (NO)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>MATERIAL/COMPONENT</u>	<u>CAS NO.</u>	<u>APPROX. %</u>
Sodium Hypochlorite	7681-52-9	<7.0%
Surfactants	Trade Secret	<9.0%

SECTION 4. FIRST AID MEASURES

EYES: Flush eyes immediately with water for at least 15 minutes or until irritation subsides, occasionally lifting lower and upper lids. Get medical attention promptly. Remove contacts if present. Immediately call a POISON CENTER or doctor/physician.

SKIN: Wash thoroughly with soap and water. Immediately remove contaminated clothing and wash before reuse. If irritation or rash develops, obtain medical assistance. Immediately remove soaked clothing.

INGESTION: Do not induce vomiting except at the instruction of a physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Drink a glass of water. Seek medical attention.

INHALATION: Remove patient to fresh air and consult a physician. If breathing is difficult, give oxygen. If not breathing give artificial respiration.

SECTION 5. FIRE-FIGHTING MEASURES

FLAMMABILITY CLASS: Non- Flammable

FIRE AND EXPLOSION HAZARD: None

EXTINGUISHING MEDIA: Foam. Dry powder. Carbon dioxide. Water spray. Sand. **CAUTION: WATER STREAM MAY SPREAD FIRE.**

FIRE FIGHTING INSTRUCTIONS: Use water spray to cool containers exposed to flames. Do not enter enclosed or a confined work space without proper protective equipment. Firefighting personnel should wear respiratory protection (positive pressure if available). If leak or spill has not ignited, use water spray to disperse the vapors.

SECTION 5 NOTES: Products of combustion include chlorine, smoke and carbon oxides.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

For non-emergency personnel

Protective equipment : Safety glasses. Protective clothing. Gloves.
Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

ENVIRONMENTAL PRECAUTIONS: Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

SECTION 6 NOTES: This material will be slippery if spilled. PERSONAL PRECAUTIONS: SEE SECTION 8

SECTION 7. HANDLING AND STORAGE

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PRECAUTIONS FOR SAFE HANDLING:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Wash exposed skin thoroughly after handling.

CONDITIONS FOR SAFE STORAGE:

Storage conditions :

Keep only in the original container in a cool, well ventilated place away from : incompatible materials. Keep container closed when not in use. Store in a cool, dry place. Do not reuse empty container; rinse container and put in trash container.

Incompatible products :

Strong reducing agents. combustible materials. aluminum. metals. Ammonia. Strong acids. Sources of ignition. Direct sunlight.

Incompatible products :

SECTION 7 NOTES: Keep out of reach of children. Do not get in eyes/on skin. Wash thoroughly with soap & water after handling. Do not mix w/other household chemicals.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

APPROPRIATE ENGINEERING CONTROLS:	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.
PERSONAL PROTECTIVE EQUIPMENT:	Avoid all unnecessary exposure.
HAND PROTECTION:	Wear protective gloves.
EYE PROTECTION:	Chemical goggles or safety glasses.
SKIN AND BODY PROTECTION:	Wear suitable protective clothing.
RESPIRATORY PROTECTION:	Wear appropriate mask.
OTHER INFORMATION:	Do not eat, drink or smoke during use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, hazy liquid

ODOR: Chlorine-like

PHYSICAL STATE: Liquid at standard temperature and pressure

pH AS SUPPLIED: 8.0-9.0

pH (Other): NA

BOILING POINT:

F: NA

C: NA

MELTING POINT:

F: NA

C: NA

FLASH POINT:

F: NA

C: NA

AUTOIGNITION TEMPERATURE:

F: NA

C: NA

VAPOR PRESSURE (mmHg): NA

SPECIFIC GRAVITY @ 60°F (WATER=1): NA

EVAPORATION RATE: NA

MOLECULAR WEIGHT: NA

SOLUBILITY (H2O): 100%

PERCENT VOLATILES (EPA Method 24): NA

VISCOSITY: NA

Physical data may vary slightly to meet specifications.

SECTION 10. STABILITY AND REACTIVITY

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Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Reacts violently with acids. May react violently with reducing agents. Contact with acids liberates toxic gas.

Conditions to avoid

Incompatible materials. Direct sunlight. Extremely high or low temperatures.

Materials to avoid

Strong reducing agents. Water. Zinc. Metals. Aluminium. Ammonia. Strong acids.

Hazardous decomposition products

Hydrogen chloride. Chlorine. Phosgene.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye damage. No data available

SECTION 12. ECOLOGICAL INFORMATION

TOXICITY

LC50 fishes 1 : 4.7 mg/l
LC50 fishes 1 : 0.026 mg/l (96 h; Oncorhynchus kisutch; Chlorine)
EC50 Daphnia 1 : 2.1 mg/l (96 h; Daphnia magna)
EC50 other aquatic organisms 1 : 0.2 mg/l (24 h; Skeletonema costatum; Biomass)
LC50 fish 2 : 0.19 mg/l (96 h; Pimephales promelas)
Threshold limit algae 1 : 0.84 mg/l (24 h; Chlorophyta; Biomass)

PERSISTENCE AND DEGRADABILITY

Persistence and degradability : Biodegradability: not applicable.
Biochemical oxygen demand (BOD): Not applicable
Chemical oxygen demand (COD): Not applicable
ThOD : Not applicable
BOD (% of ThOD) : Not applicable

BIOACCUMULATIVE POTENTIAL

Bioaccumulative potential: Not bioaccumulative.

MOBILITY IN SOIL

No additional information available

OTHER ADVERSE EFFECTS

Other information : Avoid release to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL RECOMMENDATIONS : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.

ECOLOGY – WASTE MATERIALS : Avoid release to the environment.

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SECTION 14. TRANSPORTATION INFORMATION

DOT PSN Code: HNV DOT
Proper Shipping Name: HYPOCHLORITE SOLUTIONS
DOT Class: 8
DOT Pack Group: III DOT
Label: CORROSIVE IMO PSN
Code: NTF IMO
Proper Shipping Name: SODIUM HYPOCHLORITE, SOLUTION

SECTION 15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

Listed on the United States TSCA (Toxic Substances Control Act) inventory

RQ (Reportable quantity, section 304 of EPA's List of Lists) : 100 lb

INTERNATIONAL REGULATIONS

CANADA

WHMIS Classification: Class E - Corrosive Material

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

C; R34

R31

N; R50

Full text of R-phrases: see section 16

NATIONAL REGULATIONS

No additional information available

US STATE REGULATIONS

No additional information available

SECTION 16. OTHER INFORMATION

DISCLAIMER: The information contained herein is based upon data available to us, and reflects our best professional judgment. However, no warranty or merchantability, fitness or use, or other warranty is expressed or implied regarding the accuracy of such data, the results to be obtained from the use thereof, or that any such use does not infringe on any patent. Since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of such application. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the materials for his particular purpose.

MMR: Mold & Mildew Stain Remover

USER INSTRUCTIONS

CAUTIONARY STATEMENT: MMR is a commercial strength, mold- and mildew-stain removing product. Precaution should be taken when using MMR. MMR has a chlorine-like smell. Please consult MSDS and product label for specifics.

STORAGE NOTICE: Please inspect your package upon delivery to ensure contents were not damaged during shipment. Store MMR in a cool, dark area away from carpet and furniture as container degradation is possible. If you suspect a leak, transfer MMR to a plastic container that can be covered. Store out of the reach of children.

PERSONAL PROTECTIVE EQUIPMENT (PPE): We suggest wearing full PPE when applying MMR. This includes a hooded Tyvek or chemical suit, latex gloves and a full face respirator (with p100 vapor organic cartridges). All of these items are available at www.fastmoldremoval.com.

PRODUCT CHARACTERISTICS AND APPLICATION INSTRUCTIONS:

1. MMR is a ready-to-use product. No dilution required.
2. Shake MMR container prior to use.
3. MMR is typically applied with a garden-type, pump sprayer.
4. MMR covers between 175-225 square feet/gallon, depending on how liberally it is applied and the prevalence of mold on the impacted surface.
5. MMR works best when applied to dry surfaces. Excess moisture content reduces the product's ability to penetrate the porous nature of the particular building material. Frozen surfaces are also less receptive to MMR.
6. MMR can act in a corrosive manner. It should not be applied to copper, steel, metal, aluminum, mechanicals, duct work, nail plates or other materials that tend to corrode. If accidentally applied to those materials, immediately wash them with soapy water or wipe down with WD-40.
7. DO NOT APPLY MMR TO FABRICS.
8. Shockwave disinfectant may be applied to a surface immediately following treatment with MMR, assuming the mold stains have been removed to your satisfaction.

For questions regarding the use of MMR, please contact us at one of the following:

708-441-7982, or
mmr@moldsolutionsintl.com