

1. PRODUCT AND COMPANY IDENTIFICATION

Product name RMR-86 Mold Stain & Mildew Stain Remover

Other means of identification

SDS # RMR-001

Recommended use of the chemical and restrictions on use

Recommended use Mold stain and mildew stain remover.

Details of the supplier of the safety data sheet

Company information Manufacturer Address
RMR Solutions
2202 Grand Commerce Dr.
Howell, MI 48855
Ph: 866-822-8744
Fax: 810-227-5595
Website: rmr solutions.com

Emergency phone number Chemtel 800-255-3924

2. HAZARDS IDENTIFICATION

Appearance Clear yellow liquid

Physical state Liquid

Odor Chlorine Bleach

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2

Label elements



Signal word Warning

Hazard statements Causes skin irritation
Causes serious eye irritation

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves, protective clothing, eye protection, face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Other hazards

Very toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS #	WEIGHT %
Sodium hypochlorite	7681-52-9	1-5
Proprietary buffer	Proprietary	0.5-1.5
Proprietary alkaline booster	Proprietary	0.1-1.0

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**Description of first aid measures**

Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Inhalation	Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician/poison center if individual's condition declines or if symptoms persist.
Ingestion	Rinse mouth. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Immediate medical attention is required.

Most important symptoms and effects, both acute and delayed

Symptoms	Causes skin irritation. Causes serious eye irritation. May cause irritation to the mucous membranes and upper respiratory tract. May cause burns to mouth, esophagus and stomach. Swallowing large quantities may cause gastrointestinal tract irritation, nausea, vomiting, and diarrhea.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Dry chemical, CO2 or water spray. Foam.
Unsuitable Extinguishing Media	Not determined.

Specific Hazards Arising from the Chemical Combustion products may be toxic. Contacts with acids liberates toxic gas.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂).

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required. Keep unnecessary people away, isolate hazard area and deny entry. Remove all sources of ignition.

For Emergency Responders Contact with acids liberates toxic gas.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an absorbent material.

Methods for Clean-Up Reclaim where possible. Sweep up absorbed material and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Avoid contact with skin, eyes or clothing. Wear appropriate personal protective equipment.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from incompatible materials, open flames, and high temperatures.

Incompatible Materials Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Proprietary alkaline booster	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³ IDLH: 10 mg/m ³

Appropriate engineering controls**Engineering Controls**

Maintain eye wash fountain and quick-drench facilities in work area.

Individual protection measures, such as personal protective equipment**Eye/Face Protection**

Wear safety glasses with side shields (or goggles). Refer to 29 CFR 1910.133 for eye and face protection regulations.

Skin and Body Protection

Wear protective gloves and protective clothing. Reference Wiley's "Quick Selection Guide to Chemical Protective Clothing". Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory Protection

If necessary, wear a MSHA/NIOSH-approved respirator. Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical state	Liquid
Appearance	Clear yellow liquid
Odor	Chlorine Bleach
Color	Clear to yellow
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/Method</u>
pH	11.37	
Melting point / freezing point	-18 °C / -1 °F	
Initial boiling point and boiling range	106 °C / 222 °F	
Flash point	No information available	
Evaporation Rate	No information available	
Flammability (Solid, Gas)	Liquid-Not applicable	
Flammability Limit in Air		
Upper flammability or explosive limits	No information available	
Lower flammability or explosive limits	No information available	
Vapor Pressure	65.38 (55°C)	
Relative Vapor Density	No information available	
Relative Density	No information available	
Water Solubility	Soluble in water	
Solubility in other solvents	No information available	
Partition Coefficient	No information available	

Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic Viscosity	No information available
Dynamic Viscosity	No information available
Particle characteristics	No information available
Explosive Properties	No information available
Oxidizing Properties	No information available

10. STABILITY AND REACTIVITY

<u>Reactivity</u>	Not reactive under normal conditions.
<u>Chemical stability</u>	Stable under recommended storage conditions.
<u>Possibility of hazardous reactions</u>	None under normal processing.
<u>Hazardous Polymerization</u>	Under normal conditions of storage and use, hazardous polymerization will not occur.
<u>Conditions to Avoid</u>	Heat, sparks, flames. Incompatible Materials. Contact with acids liberates toxic gas.
<u>Incompatible materials</u>	Strong oxidizing agents. Strong acids. Strong bases.
<u>Hazardous decomposition products</u>	Carbon monoxide. Carbon dioxide (CO ₂).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Avoid contact with eyes.
Skin Contact	Avoid contact with skin.
Inhalation	May cause irritation if inhaled.
Ingestion	Ingestion causes acute irritation and burns to the mucous membranes of the mouth, trachea, esophagus and stomach. May cause nausea, vomiting, stomach ache, and diarrhea.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hypochlorite 7681-52-9	= 8.91 g/kg (Rat)	> 20000 mg/kg (Rabbit)	> 10.5 mg/L (Rat) 1 h
Proprietary buffer	= 4090 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2300 mg/m ³ (Rat) 2 h
Proprietary stabilizer	= 1960 mg/kg (Rat)	-	-
Proprietary alkaline booster	= 325 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	-
Proprietary surfactant	> 2000 mg/kg (Rabbit)	> 2000 mg/kg (Rabbit)	-
Proprietary cleaning agent	> 10000 mg/kg (Rat)	-	> 2.4 mg/L (Rat) 4 h

Symptoms related to the physical, chemical and toxicological characteristics**Symptoms**

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation**

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Carcinogenicity

Group 3 IARC components are “not classifiable as human carcinogens”.

Chemical name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite 7681-52-9		Group 3 - Unclassifiable as to carcinogenicity in humans		

Numerical measures of toxicity

Not determined.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Sodium hypochlorite 7681-52-9		LC50: 0.06 - 0.11mg/L (96h, Pimephales promelas) LC50: 4.5 - 7.6mg/L (96h, Pimephales promelas) LC50: 0.4 - 0.8mg/L (96h, Lepomis macrochirus) LC50: 0.28 - 1mg/L (96h, Lepomis macrochirus) LC50: 0.05 - 0.771mg/L (96h, Oncorhynchus mykiss) LC50: 0.03 - 0.19mg/L (96h, Oncorhynchus mykiss) LC50: 0.18 - 0.22mg/L (96h, Oncorhynchus mykiss)	EC50: 0.033 - 0.044mg/L (48h, Daphnia magna)
Proprietary buffer		LC50: =300mg/L (96h, Lepomis macrochirus) LC50: 310 - 1220mg/L (96h, Pimephales promelas)	EC50: =265mg/L (48h, Daphnia magna)
Proprietary stabilizer		LC50: 301 - 478mg/L (96h, Lepomis macrochirus) LC50: =3185mg/L (96h, Brachydanio rerio)	
Proprietary alkaline booster		LC50: =45.4mg/L (96h, Oncorhynchus mykiss)	
Proprietary cleaning agent		LC50: 13500 - 14500mg/L (96h, Pimephales promelas) LC50: >6800mg/L (96h, Pimephales promelas) LC50: 3040 - 4380mg/L (96h, Lepomis macrochirus) LC50: =13500mg/L (96h, Lepomis macrochirus)	EC50: =2564mg/L (48h, Daphnia magna)

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL INFORMATION**Disposal Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical name	California Hazardous Waste Status
Proprietary buffer	Corrosive
Proprietary alkaline booster	Toxic, Corrosive

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION**International Inventories**

Chemical name	TSCA	TSCA Inventory Status	DSL/ NDSL	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Sodium Hypochlorite	X	ACTIVE	X	X	X	X	X	X	X
Proprietary Buffer	X	ACTIVE	X	X	X	X	X	X	X
Proprietary Stabilizer	X	ACTIVE	X	X	X	X	X	X	X
Proprietary Alkaline Booster	X	ACTIVE	X	X	X	X	X	X	X
Proprietary Surfactant	X	ACTIVE	X		X	X	X	X	
Proprietary Cleaning Agent	X	ACTIVE	X	X	X	X	X	X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Sodium hypochlorite 7681-52-9	100 lb / 5.4 kg (final RQ)		RQ 100 lb final RQ RQ 45.4 kg final RQ
Proprietary alkaline booster	1000 lb / 54 kg (final RQ)		RQ 1000 lb final RQ RQ 454 kg final RQ

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hypochlorite	100 lb			X
Proprietary alkaline booster	1000 lb			X

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium hypochlorite 7681-52-9	X	X	X
Proprietary alkaline booster	X	X	X
Proprietary cleaning agent		X	X

16. OTHER INFORMATION**NFPA**

Health hazard -
Flammability -
Instability -
Special hazards -

HMIS

Health Hazard -
Flammability -
Physical Hazard -
Personal protection -

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet