# **Safety Data Sheet**

Issue Date: 16-Dec-2022 Revision Date: 25-Jan-2023 Version 2

### 1. IDENTIFICATION

Product identifier

Product Name RMR-86 Pro

Other means of identification

**SDS #** RMR-012

UN/ID No UN1791

Recommended use of the chemical and restrictions on use

**Recommended Use** For industrial use.

Details of the supplier of the safety data sheet

Supplier Address

RMR Solutions 301 Appian Way Brighton, MI 48116 Ph: 866-822-8744

Fax: 810-227-5595 Website: rmrsolutions.com

Emergency telephone number

Emergency Telephone Chemtel 800-255-3924

# 2. HAZARDS IDENTIFICATION

#### Physical state Liquid

#### Classification

Per 29 CFR 1910.1200, this product has received further evaluation from the manufacturer. The test results provided are reflected in the classification below.

Skin corrosion/irritation	Category 2
Serious eve damage/eve irritation	Category 1

### Signal Word Danger

<u>Hazard statements</u> Causes skin irritation

Causes serious eye damage



#### **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 Immediately call a poison center or doctor/physician

IF ON SKIN: Wash with plenty of water and soap

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 No	Weight-%
Sodium hypochlorite	7681-52-9	5-10
Sodium carbonate	497-19-8	1-3
Sodium hydroxide	1310-73-2	<1
Dowfax 2A1	12626-49-2	<1

<sup>\*\*</sup>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**

**General Advice** Provide this SDS to medical personnel for treatment.

**Eye Contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

**Skin Contact** Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

**Inhalation** Remove to fresh air.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** Causes skin irritation. Causes serious eye damage.

### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

#### **Specific Hazards Arising from the Chemical**

Not determined.

#### 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.

#### **Environmental precautions**

#### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Keep in suitable, closed 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. Wash face, hands

and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing

and eye/face protection.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials**None known based on information supplied.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>
1310-73-2	-		Ceiling: 2 mg/m <sup>3</sup>

#### Appropriate engineering controls

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection** Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection** 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

AppearanceNot determinedOdorNot determinedColorNot determinedOdor ThresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 11.01 (10% solution)

Melting point / freezing point No data available

Initial boiling point and boiling No data available

range

Flash point No data available
Evaporation Rate Not determined
Flammability (Solid, Gas) Not determined

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

**Vapor Pressure** Not determined **Vapor Density** No data available **Relative Density** Not determined **Water Solubility** Not determined Solubility in other solvents Not determined **Partition Coefficient** Not determined **Autoignition temperature** No data available Hyphen Not determined Kinematic viscosity Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

# 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

# **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None under normal processing.

#### **Conditions to Avoid**

Keep out of reach of children.

#### **Incompatible materials**

None known based on information supplied.

#### **Hazardous decomposition products**

None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Avoid contact with skin.

**Inhalation** Do not inhale.

**Ingestion** Do not ingest.

#### **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
Sodium carbonate 497-19-8	= 4090 mg/kg (Rat)	> 2000 mg/kg ( Rabbit )	= 2300 mg/m <sup>3</sup> ( Rat ) 2 h
Sodium Silicate 1344-09-8	= 1960 mg/kg(Rat)	-	-
Sodium hydroxide 1310-73-2	= 325 mg/kg ( Rat )	= 1350 mg/kg ( Rabbit )	-

#### 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

**Carcinogenicity** Group 3 IARC components are "not classifiable as human carcinogens".

Chemical name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite		Group 3		
7681-52-9				

Legend

IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

#### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (inhalation-dust/mist) 33.90 mg/l

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

#### **Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
Sodium hypochlorite		LC50: 0.06 - 0.11mg/L (96h,	EC50: 0.033 - 0.044mg/L (48h,
7681-52-9		Pimephales promelas)	Daphnia magna)
		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)
Sodium carbonate 497-19-8	LC50: =300mg/L (96h, Lepomis macrochirus)
Sodium Silicate 1344-09-8	LC50: 301 - 478mg/L (96h, Lepomis macrochirus) LC50: =3185mg/L (96h, Brachydanio rerio)
Sodium hydroxide 1310-73-2	LC50: =45.4mg/L (96h, Oncorhynchus mykiss)

#### Persistence/Degradability

Not determined.

#### **Bioaccumulation**

There is no data for this product.

#### **Mobility**

Not determined

### Other adverse effects

Not determined

# 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment 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
Sodium carbonate 497-19-8	Corrosive
Sodium hydroxide	Toxic
1310-73-2	Corrosive

# 14. TRANSPORT INFORMATION

Note This corrosive material, as per 49 CFR §173.154 and when the product meets the

packaging requirements of 49 CFR  $\S173.154$  (b)(2) [inner packaging not over 5.0 L (1.3 gallons) net capacity each for liquid] is excepted from labeling and placarding requirements

so long as the material is not offered for transport by aircraft.

**DOT** Limited Quantity

**UN/ID No** UN1791

Proper Shipping Name Hypochlorite Solution

Transport hazard class(es) 8
Packing Group III

Marine Pollutant This material ships as a marine pollutant when single container exceeds 119 gal/ 882 lbs.

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IATA

UN1791 **UN** number or ID number

**Proper Shipping Name** Hypochlorite Solution

Transport hazard class(es) Packing group

Description This material ships as a marine pollutant when inner packaging exceed 5L/5KG

**IMDG** 

**UN** number or ID number UN1791

**Proper Shipping Name** Hypochlorite Solution

Transport hazard class(es) 8 **Packing Group** Ш

**Marine Pollutant** This material ships as a marine pollutant when inner packaging exceed 5L/5KG

# 15. REGULATORY INFORMATION

#### **International Inventories**

Chemical name	TSCA	TSCA Inventory	DSL/NDSL		ENCS	IECSC	KECL	PICCS	AIIC
		Status		NCS					
Sodium hypochlorite	Х	ACTIVE	X	X	X	Х	Х	X	Х
Sodium carbonate	Х	ACTIVE	X	X	X	Х	Х	X	X
Sodium Silicate	Х	ACTIVE	X	X	Χ	X	Х	X	Х
Sodium hydroxide	Х	ACTIVE	Х	X	Х	Х	Х	Х	Х

#### 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	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium hypochlorite	100 lb		RQ 100 lb final RQ
7681-52-9			RQ 45.4 kg final RQ
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ
1310-73-2			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			Χ
Sodium hydroxide	1000 lb			Х

#### **US 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	Х
Sodium hydroxide 1310-73-2	Х	X	Х

# **16. OTHER INFORMATION**

HMISHealth hazardsFlammabilityPhysical hazardsPersonal Protection---Not determined

Issue Date:16-Dec-2022Revision Date:10-Jan-2023Revision Note:Transport update

#### **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**