



Issue Date: 30-Jan-2019
Revision Date: 23-July-2025
Version: 4

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Restore (Dilution 0.5 -5550 ppm)

Other means of identification

Synonyms None known.

Recommended use of the chemical and restrictions on use

Recommended Use As indicated on US EPA master label, 71847-7, see enclosed.

Uses advised against As indicated on US EPA master label, 71847-7, see enclosed.

Details of the supplier of the safety data sheet

Manufacturer Address
RMR Solutions, LLC.
2202 Grand Commerce Dr.
Howell, MI USA

Emergency telephone number

Company Phone Number 866-822-8744

24 Hour Emergency Phone Number Chemtel 800-255-3924

2. HAZARDS IDENTIFICATION

Classification

Health Hazards

Not classified.

Physical Hazards

Not classified.

OSHA Regulatory Status

This product is not considered hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200, Revision 3).

Label elements

Emergency Overview

Normal precautions common to safe manufacturing practice should be followed in handling and storage.

Appearance Colorless liquid

Physical state Liquid

Odor Slight chlorine

Hazards not otherwise classified (HNOC)

Not available.

Other information

Harmful to aquatic life with long lasting effects Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard/ Globally Harmonized System of Classification and Labelling of Chemicals (GHS); (29 CFR 1910.1200; Revision 3).

Synonyms None known.

Chemical name	CAS No	Weight-%
Sodium-dichloro-s-triazinetrione	2893-78-9	0.000025-0.28
Adipic Acid	124-04-9	0.000012-0.13
Sodium Bicarbonate, USP	144-55-8	0.00001-0.12
Sodium carbonate	497-19-8	0.000002-0.02
Sodium dodecylbenzenesulfonate	25155-30-0	0.000001-0.01
Water	7732-18-5	>99

4. FIRST AID MEASURES

Description of first aid measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Eye Contact	In case of eye contact to tablet product, immediately flush eyes with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Get medical attention if irritation persists.
Skin Contact	In case of contact to tablet product, remove contaminated clothing. Immediately flush skin with copious amounts of water for at least 15 minutes. Obtain medical attention if skin reaction occurs.
Inhalation	In case of inhaling dusts from broken tablets, immediately move exposed subject to fresh air. If not breathing, provide artificial respiration. If breathing is difficult, administer oxygen. Seek medical attention immediately.
Ingestion	In case of accidental ingestion of tablet product, wash out mouth with copious amounts of water. Seek medical attention immediately. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms Not available.

Indication of any immediate medical attention and special treatment needed

Note to Physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

<u>Suitable extinguishing media</u>	Dry chemical, CO2, water spray or regular foam.
<u>Unsuitable Extinguishing Media</u>	None known.
<u>Specific hazards arising from the chemical</u>	Not available.
<u>Hazardous Combustion Products</u>	Not available.
<u>Explosion data</u>	
<u>Sensitivity to Mechanical Impact</u>	Not available.
<u>Sensitivity to Static Discharge</u>	Not available.

Protective equipment and precautions for firefighters

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**

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8, and follow handling guidance appropriate for the compound (see Section 7). Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Environmental precautions**Environmental Precautions**

See Section 12 for additional ecological information. Prevent entry into waterways, sewers, surface drainage systems or wildlife water supply.

Methods and material for containment and cleaning up**Methods for Containment**

Absorb with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.

Methods for Cleaning Up

Collect spill with absorbent material. Clean spill area thoroughly.

7. HANDLING AND STORAGE**Precautions for safe handling****Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid generation of dust/mists. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Provide appropriate exhaust ventilation at places where vapor is formed. Do not eat, drink, or smoke when using this product. Use personal protection recommended in Section 8.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep container tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

This product, as supplied, contains the following hazardous material(s) with occupational exposure limits established by the region-specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Adipic Acid 124-04-9	TWA: 5 mg/m ³	-	-

Appropriate engineering controls**Engineering Controls**

The health hazard risks of handling this material are dependent on factors, such as physical form and quantity. Site-specific risk assessments should be conducted to determine the appropriate exposure control measures. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels as low as reasonably achievable.

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

In laboratory, medical or industrial settings, safety glasses with side shields are recommended. The use of goggles or full-face protection may be required depending on the industrial exposure setting. Contact a health and safety professional for specific information.

Skin and Body Protection

In laboratory, medical or industrial settings, gloves and lab coats are recommended. The use of additional personal protective equipment such as shoe coverings, gauntlets, hoods or head coverings may be necessary. Contact a health and safety professional for specific information.

Respiratory Protection

Not required for normal handling of packed product. Respirators/ PAPR may be required for certain laboratory and manufacturing tasks if engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (where the exposure limits have not been established). Workplace risk assessments should be completed before specifying and implementing respirator usage. All respirators must conform to specifications for efficiency and performance indicated by OSHA Standard 29 CFR 1910.134.

General Hygiene Considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment.

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

Physical state	Liquid		
Appearance	Colorless liquid	Odor	Slight chlorine
Color	Colorless	Odor Threshold	Not available.
Property	Values	Remarks	
pH	5-7		
Melting Point/Freezing Point	Not available.		
Boiling Point/Boiling Range	Not available.		
Flash Point	Not available.		
Evaporation Rate	Not available.		
Flammability (solid, gas)	Not available.		

Flammability Limit in Air

Upper Flammability Limit:	Not available.
Lower Flammability Limit:	Not available.
Vapor Pressure	Not available.
Vapor Density	Not available.
Specific Gravity	Not available.
Water Solubility	Completely soluble
Solubility in Other Solvents	Not available.
Partition Coefficient	0
Autoignition Temperature	Not available.
Hyphen	225-250°C
Kinematic Viscosity	Not available.
Dynamic Viscosity	Not available.
Explosive Properties	Not available.
Oxidizing Properties	Not available.
<u>Other information</u>	
Softening Point	Not available.
Molecular Weight	Not available.
VOC Content (%)	Not available.
Density	1.0
Bulk Density	Not available.

10. STABILITY AND REACTIVITY

<u>Reactivity</u>	Not reactive under normal conditions.
<u>Chemical stability</u>	Stable under recommended handling and storage conditions.
<u>Possibility of hazardous reactions</u>	None under normal use conditions.
<u>Hazardous Polymerization</u>	Hazardous polymerization does not occur.
<u>Conditions to avoid</u>	None under recommended storage and handling conditions (see section 7).
<u>Incompatible materials</u>	Not available.
<u>Hazardous decomposition products</u>	None under normal use conditions.

11. TOXICOLOGICAL INFORMATION**Acute Toxicity**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Intravenous LD50
Sodium-dichloro-s-triazinetrione 2893-78-9	= 1823 mg/kg (Rat)	>2000 mg/kg (Rabbit)	0.27 - 1.17 mg/L (Rat) 4 h	-
Adipic Acid 124-04-9	>11000 mg/kg (Rat)	>7940 mg/kg (Rabbit)	>7700 mg/m ³ (Rat) 4 h	-
Sodium Bicarbonate, USP 144-55-8	= 4220 mg/kg (Rat)	-	-	-
Sodium carbonate 497-19-8	= 4090 mg/kg (Rat)	-	-	-
Sodium dodecylbenzenesulfonate 25155-30-0	= 500 mg/kg (Rat)	-	-	-
Water 7732-18-5	>90 mL/kg (Rat)	-	-	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Not available.

Delayed and immediate effects as well as chronic effects from short- and long-term exposure

Skin Corrosion/Irritation Not a skin irritant.

Serious Eye Damage/Eye Irritation Not irritating to eyes.

Sensitization Not a potential sensitizer.

Germ Cell Mutagenicity This product does not contain any ingredient that is tested positive for genotoxicity by Ames tests in 5 salmonella strains and 1 E. coli strain with or without rat microsomal activation.

Carcinogenicity This product is not listed by ACGIH, IARC, NTP or USOSHA.

Reproductive Toxicity This product does not contain any known or suspected reproductive hazards.

Teratogenicity This product does not contain any known or suspected developmental hazards.

STOT - Single Exposure Not classified.

STOT - Repeated Exposure Not classified.

Aspiration Hazard Not available.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium-dichloro-s-triazinetrione 2893-78-9	-	0.25 - 1: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 0.207 - 0.389: 96 h <i>Lepomis macrochirus</i> mg/L LC50 flow-through 0.176 - 0.267: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 0.29: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 0.13 - 0.36: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static	-	0.00018 - 0.00021: 48 h <i>Daphnia magna</i> mg/L EC50 0.093 - 0.16: 48 h <i>Daphnia magna</i> mg/L EC50
Adipic Acid 124-04-9	31.3: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 26.6: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	97: 96 h <i>Pimephales promelas</i> mg/L LC50 static	-	85.7: 48 h <i>Daphnia magna</i> mg/L EC50
Sodium Bicarbonate, USP 144-55-8	-	8250 - 9000: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	-	2350: 48 h <i>Daphnia magna</i> mg/L EC50
Sodium carbonate 497-19-8	-	310 - 1220: 96 h <i>Pimephales promelas</i> mg/L LC50 static 300: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	-	265: 48 h <i>Daphnia magna</i> mg/L EC50
Sodium dodecylbenzenesulfonate 25155-30-0	-	10.8: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static	-	-

Persistence and degradability The product is biodegradable.

Bioaccumulation The product does not bioaccumulate.

Mobility Not available.

Chemical name	Partition coefficient
Adipic Acid 124-04-9	0.081

Other adverse effects Not available.

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 Codes

Not applicable.

This product contains the following substance that are listed with the State of California as a hazardous waste.

Chemical name	Partition coefficient
Sodium carbonate 497-19-8	Corrosive

14. TRANSPORT INFORMATION

DOT Not Applicable.

IATA Not Applicable.

IMDG Not Applicable.

ADR Not Applicable.

15. REGULATORY INFORMATION**US Federal Regulations****SARA 313**

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

SARA 311/312 Hazard Categories

Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This product is not listed by CERCLA, but as supplied, contains the following substance(s) 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)
Adipic Acid 124-04-9	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Sodium dodecylbenzenesulfonate 25155-30-0	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product contains the following substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium-dichloro-s-triazinetrione 2893-78-9	X		X
Adipic Acid 124-04-9	X		X
Sodium dodecylbenzenesulfonate 25155-30-0	X		X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION**HMIS III:**

HEALTH	0	0 = Minimal Hazard
FLAMMABILITY	0	1 = Slight Hazard
PHYSICAL HAZARD	0	2 = Moderate Hazard
		3 = Serious Hazard
		4 = Severe Hazard

Issue Date 30-Jan-2019
Revision Date 02-Feb-2023
Revision Note Wording in section 8 updated for clarity.

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 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