

SAFETY DATA SHEET

RNase Cleanup

Section 1 - Chemical Product and Company Identification

SDS Name: RNase Cleanup

Catalog Numbers: SO-1322

Company Identification: Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.
10 ELECTRONICS AVENUE
DANVERS, MA 01923

For information, call: 978-739-4883

Emergency Number: 800-424-9300

For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

H290-Corrosive to metals: 1

H302-Acute toxicity, oral: 4

H314-Skin corrosion/irritation: 1B

H318-Serious eye damage/eye irritation: 1

H335-Specific target organ toxicity, single exposure; Respiratory tract irritation: 3

Pictograms or Hazard symbols and Hazard statement(s):



Signal Word: Danger

Hazard Statements:

H290-May be corrosive to metals

H302-Harmful if swallowed

H314-Causes severe skin burns and eye damage

H318-Causes serious eye damage

H335-May cause respiratory irritation

Precautionary Statements:

P234-Keep only in original container.
P260-Do not breathe dusts or mists.
P261-Avoid breathing dust/fume/gas/mist/vapours/spray.
P264-Wash thoroughly after handling.
P270-Do not eat, drink, or smoke when using this product.
P271-Use only outdoors or in a well-ventilated area.
P280-Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312-If swallowed: Call a Poison Center or doctor/physician if you feel unwell.
P301+P330+P331-If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353-If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340-If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.
P312-Call a Poison Center or doctor/physician if you feel unwell.
P330-Rinse mouth.
P363-Wash contaminated clothing before reuse.
P390-Absorb spillage to prevent material damage.
P403+P233-Store in a well-ventilated place. Keep container tightly closed.
P405-Store locked up.
P406-Store in corrosive resistant/container with a resistant inner liner.
P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
7681-52-9	Sodium hypochlorite	10 w/v
1310-73-2	Sodium hydroxide	1 w/v
144-55-8	Sodium bicarbonate	0.75 w/v
151-21-3	Sodium dodecyl sulfate	0.13 w/v
7732-18-5	Water	Balance

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical attention immediately.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention.

Oral Exposure: If swallowed, seek immediate medical advice. Ingestion causes severe burns, severe swelling, and severe damage to the delicate tissue and danger of perforation of the digestive tract. Do not induce vomiting. Clean mouth with water.

Inhalation Exposure: If inhaled, remove to fresh air. Seek immediate medical attention.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

Hazardous Combustion Products: Carbon oxides, sodium oxides, sulfur oxides, irritating toxic fumes and gases.

Flash Point: Not available

Autoignition Temperature: Not available

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Rating: (estimated) Health: 3; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation.

Methods for Cleaning up: Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Do not release to the environment. Do not release to drains. Avoid contact with incompatible substances: strong oxidizing agents, metals, ammonia, and acids.

Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Ensure adequate ventilation. Wash thoroughly after handling. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Store in a tightly closed container at room temperature in a cool, dry, and well-ventilated area. Keep away from incompatible materials: strong oxidizing agents, metals, ammonia, and acids.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Limits:

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium Hypochlorite CAS#7681-52-9	Not listed	Not listed	Not listed
Sodium Hydroxide CAS#1310-73-2	2 mg/m3 Ceiling	2 mg/m3 Ceiling 10 mg/m3 IDLH	2 mg/m3 TWA
Sodium Bicarbonate CAS#144-55-8	Not listed	Not listed	Not listed
Sodium Dodecyl Sulfate CAS#151-21-3	Not listed	Not listed	Not listed

OSHA Vacated PELs: Sodium Hydroxide: 2 mg/m3 Ceiling

Section 9 - Physical and Chemical Properties
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Physical State: Liquid

Appearance: Light Yellow

Odor: Not available

Vapor Pressure: Not available

Odor Threshold: Not available

Vapor Density: Not available

pH: Approx. 12.6

Relative density: Not available

Melting point/freezing point: Not available

Solubility: Soluble in water

Boiling Point: Not available

Flash point: Not available

Evaporation Rate: Not available

Flammability (solid, gas): Not available

Partition coefficient: n-octanol water: Not available

Autoignition Temperature: Not available

Decomposition Temperature: Not available

Viscosity: Not available

Specific Gravity/Density: Not available

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible products, ignition sources, excess heat, and freezing. Open flame and sparks.

Incompatibilities with Other Materials: Strong oxidizing agents, metals, ammonia, and acids.

Hazardous Decomposition Products: Carbon oxides, sodium oxides, sulfur oxides, irritating toxic fumes and gases.

Section 11 - Toxicological Information
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CAS#7681-52-9 Sodium Hypochlorite:

LD50 Oral: 8.91 g/kg (rat)

LD50 Dermal: >10000 mg/kg (rat)

LC50 Inhalation: >10500 mg/L (rat) 1h

Carcinogenicity: Sodium Hypochlorite CAS#7681-52-9 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop 65.

CAS#1310-73-2 Sodium Hydroxide:

LD50 Oral: 325 mg/kg (rat)

LD50 Dermal: 1350 mg/kg (rabbit)

LC50 Inhalation: Not available

Carcinogenicity: Sodium Hydroxide CAS#1310-73-2 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop 65.

CAS#144-55-8 Sodium Bicarbonate:

LD50 Oral: 4220 mg/kg (rat)

LD50 Dermal: Not available

LD50 Inhalation: Not available

Carcinogenicity: Sodium Bicarbonate CAS#144-55-8 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop 65.

CAS#151-21-3 Sodium Dodecyl Sulfate: RTECS#: WT1050000

LD50 Oral: 977 mg/kg (rat)

LD50 Dermal: >2000 mg/kg (rabbit)

LC50 Inhalation: Not available

Carcinogenicity: Sodium Dodecyl Sulfate CAS#151-21-3 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop 65.

Epidemiology: Not available

Teratogenicity: Not available

Reproductive Effects: Not available

Developmental Effects: Not available

Neurotoxicity: Not available

Mutagenicity: Not available

Specific Target Organ Toxicity, Single Exposure: Respiratory system

Specific Target Organ Toxicity, Repeated Exposure: Not available

The toxicological properties of this material have not been thoroughly

investigated.

Section 12 - Ecological Information

Ecotoxicity: Do not release to the environment. Do not release to drains. Very toxic to aquatic life.

CAS#7681-52-9 Sodium Hypochlorite:

EC50, freshwater algae: 0.095 mg/L 24h (skeletonema costatum)
LC50, freshwater fish: 0.82-0.98 mg/L 96h (pimephales promelas)
EC50, water flea: 2.1 mg/L 96h
EC50, water flea: 0.033-0.044 mg/L 48h

CAS#1310-73-2 Sodium Hydroxide:

LC50, freshwater fish: 45.4 mg/L 96h static (oncorhynchus mykiss)

CAS#144-55-8 Sodium Bicarbonate:

EC50, freshwater algae: 650 mg/L 120h
LC50, freshwater fish: 8250-9000 mg/L 96h static (lepomis macrochirus)
EC50, water flea: 2350 mg/L 48h

CAS#151-21-3 Sodium Dodecyl Sulfate:

EC50, freshwater algae: >120 mg/L 72h (desmodesmus subspicatus)(green algae)
LC50, freshwater fish: 29 mg/L 96h (pimephales promelas)(fathead minnow)
LC50, water flea: 5.55 mg/L 48h (daphnia dubia)

Persistence and degradability: Not available

Bio-accumulative potential: Not available

Mobility: Will likely be mobile in the environment due to its water solubility.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 - Transport Information

DOT

Proper shipping name: Hypochlorite Solutions (Sodium hypochlorite)

UN1791

PG III

Hazard Class 8

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

Section 16 - Additional Information

SDS Creation Date: 3-3-22

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Rowley Biochemical, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rowley Biochemical, Inc. has been advised of the possibility of such damages.