

SECTION 1: IDENTIFICATION

Product Identifier

Product Name	Product Form	Product Code
NEUTRO-WASH™	Liquid	RH-017

Relevant identified uses of the substance or mixture:

Neutralize alkaline surfaces and remove salt as well as calcium and magnesium and brines from equipment.

Details of the supplier of the safety data sheet

Rhomar Industries, Inc.
 2107 E. Rockhurst St.
 Springfield, MO 65802 USA
 T 417-866-5592; F 417-866-5593
 solutions@rhomar.com

Emergency telephone number

1-800-535-5053

SECTION 2: HAZARDS IDENTIFICATION

Classification:

Skin Irritation (Category 2)
 Eye Irritation (Category 2)

Hazard Statements:

Causes skin irritation.
 Causes serious eye irritation.

Precautionary Statements

Prevention:

Wash skin thoroughly after handling.
 Wear protective gloves, eye protection, face protection.

Response:

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation occurs.

Skin Contact: Wash with plenty of soap and water. Get medical attention if irritation persists.

Ingestion: Call a doctor/physician if you feel unwell. Rinse mouth

Other: Take off contaminated clothing and wash before reuse.

Disposal:

Dispose of contents/container to an approved waste treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.



Signal Word:
Warning

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	CAS #	Weight %
Sulfamic Acid	5329-14-6	1-5
Sodium Hydroxide	1310-73-2	1-5
Isopropyl Alcohol	67-63-0	1-5

Any concentration shown as a range is to protect confidentiality or is due to process variation.

SECTION 4: FIRST-AID MEASURES

First Aid Measures

Inhalation: Remove to fresh air. If breathing stops, provide artificial respiration. If symptoms persist, call physician.

Eye Contact: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

Ingestion: Rinse mouth. Call a Poison Center or doctor/physician if you feel unwell.

Skin Contact: Remove contaminated clothing, wash with plenty of soap and water. If skin irritation persists, call a physician.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms: May cause eye irritation with reddening and watering. May cause skin irritation.

Indication of any Immediate Medical Attention and Special Treatment Needed: No data available.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media: Not determined.

Specific Hazards Arising from the Chemical: Nitrogen oxides, sulphur oxides.

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions: Use personal protective equipment as required. Avoid breathing vapor/mist. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and Material for Containment and Cleaning Up

Contain spillage and then pick up and arrange for disposal. Do not let product enter the drains. Keep in suitable, closed containers for disposal.

SECTION 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.

Conditions for Safe Storage, Including any Incompatibilities

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	CAS #	ACGIH – TLV	OSHA PEL	NIOSH
Sulfamic Acid	5329-14-6	No limits established	No limits established	No limits established
Sodium Hydroxide	1310-73-2	2 mg/m ³	2 mg/m ³	2 mg/m ³
Isopropyl Alcohol	67-63-0	200 ppm	400ppm 980 mg/m ³	500ppm 1225 mg/m ³

Appropriate Engineering Controls

Engineering Controls: Provide adequate ventilation for dust control.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection: Wear NIOSH approved safety goggles or safety glasses with side shields.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid		
Color	Clear		
pH	3-4 at 68° F	Melting Point/Freezing Point	No data available
Boiling Point/Boiling Range	No data available	Flash Point	No data available
Evaporation Rate	No data available	Flammability (Solid, Gas)	No data available
Upper Flammable Limits	No data available	Lower Flammable Limits	No data available
Vapor Pressure	No data available	Vapor Density	No data available
Specific Gravity	1.05 g/cm ³ at 77° F	Water Solubility	Soluble
Partition Coefficient	No data available	Autoignition Temperature	No data available
Decomposition Temperature	No data available	Kinematic Viscosity	No data available
Dynamic Viscosity	No data available	Explosive Properties	No data available
Oxidizing Properties	No data available	Odor	No data available
Odor Threshold	No data available		

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: No data available

Incompatible Materials: Strong oxidizing agents, strong bases.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Inhalation: Avoid breathing fumes/vapors/mist.

Eye contact: Causes serious eye irritation

Skin Contact: Causes skin irritation.

Ingestion: Harmful if swallowed.

This product as a whole has not been tested for acute toxicity; the following is based on component data:

Chemical Name	CAS #	Oral LD50	Dermal LD50	Inhalation LC50
Sulfamic Acid	5329-14-6	=3,160 mg/kg (Rat)	No data available	No data available
Sodium Hydroxide	1310-17-2	No data available	No data available	No data available
Isopropyl Alcohol	67-63-0	=5,045 mg/kg (Rat)	12,800 mg/kg(Rabbit)	16,000 ppm (Rat) 8 h

Chemical Name	Sulfamic Acid	Sodium Hydroxide	Isopropyl Alcohol
Skin corrosion/irritation	Moderate skin irritation (Rabbit)	Causes severe burns – 24h (Rabbit)	Mild irritation (Rabbit)
Serious eye damage/irritation	Moderate eye irritation (Rabbit)	Corrosive – 24h (Rabbit)	Eye irritation (Rabbit) -8h
Respiratory or skin sensitization	No data available	Will not occur	No data available
Mutagenicity	No data available	No data available	No data available
Carcinogenicity	Not Classifiable	Negative	Not Classifiable
Reproductive toxicity	No data available	No data available	No data available
Specific target organ toxicity single exposure	No data available	No data available	Inhalation-Oral may cause drowsiness or dizziness.
Specific target organ toxicity repeated exposure	No data available	No data available	No data available
Aspiration hazard	No data available	No data available	No data available

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Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification.

Numerical Measures of Toxicity: Not determined.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: There is no data available for this product as a whole.

Chemical Name	CAS #	Algae/Aquatic Plants	Fish	Aquatic Invertebrates
Sulfamic Acid	5329-14-6	No data available	Static test LC50 – Pimephales promelas (fathead minnow) – 70.3 mg/1-96 h	No data available
Sodium Hydroxide	1310-17-2	No data available	LC50-Gambusia affinis (mosquito fish) – 125mg/1-96 h LC50-Oncorhynchus mykiss (rainbow trout) – 45.4 mg/1-96 h	Immobilization EC50-Daphnia – 40.38 mg/1-48 h
Isopropyl Alcohol	67-63-0	EC50- Desmodesmus subspicatus (green algae)- >2,000 mg/1-72 h EC50-Algae - >1,000 mg/1-24 h	LC50- Pimephales promelas (fathead minnow) – 9,640 mg/1-96 h	Immobilization EC50-Daphnia magna (water flea)- 6,851 mg/1-24 h EC50-Daphnia magna (water flea)- 5,102 mg/1-24 h

Persistence and Degradability: No data available

Bioaccumulation: No data available

Mobility: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of contents/container to an approved waste treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

SECTION 14: TRANSPORT INFORMATION

DOT Proper Shipping Description:

Bulk and Non-Bulk: Not regulated

IATA & IMDG: Not restricted

SECTION 15: REGULATORY INFORMATION

SARA Title III Section 311/312 (40CFR370): Acute health hazard

SARA Title III Section 313 (40CFR372): This product does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372

RCRA Status (40CFR261.33): No reportable components.

TSCA Inventory Status: Reported/included

OSHA/NTP/IARC Carcinogen Status: Not listed

Canadian DSL Status: Reported/included

Chemicals known to the state of California to cause cancer or reproductive toxicity: This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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U.S. State Right-to-Know Regulations:

Chemical Name	CAS #	New Jersey	Massachusetts	Pennsylvania
Sulfamic Acid	5329-14-6	X	No Components	X
Sodium Hydroxide	1310-17-2	X	X	X
Isopropyl Alcohol	67-63-0	X	X	X

SECTION 16: OTHER INFORMATION

Prepared Date: 3/25/2020

Revision: 5 revised sections 13 & 15

HMIS Ratings:

Health: 2

Flammability: 0

Reactivity: 1

The information herein is presented in good faith and believed to be correct as of the date hereof. However, the manufacturer makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

No representations or warranty's, either express or implied of merchantability, fitness for a particular purpose or of any other nature with respect to the product or to the information herein is made hereunder. The manufacturer shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use of or reliance upon information contained herein.