

MAY 08 2015

Material Safety Data Sheet

Product Name: RG103: Alkalinity-3 (Alk-3)

Revision Date: May 2, 2011

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Section #1: Chemical Product and Company Identification

Product Name: RG103: Alkalinity-3 (Alk-3)
 Manufacturer / Distributor: Enerco Corporation
 Address: 317 N. Bridge St., Grand Ledge, MI 48837
 Telephone: (800) 292-5908

Fax: (517) 627-8037

For chemical emergency - spill, leak, fire, exposure or accident - call CHEMTREC - day or night - (800) 424-9300

Section #2: Composition/Information on Ingredients

Chemical Name	CAS Number	Weight %	OSHA PEL	ACGIH TLV
<input checked="" type="checkbox"/> Sulfuric Acid	7664-93-9	<4%	1 mg/m ³	0.2 mg/m ³

☒ Indicates hazardous substances. Remainder of components comprise proprietary information. This document is prepared pursuant to the OSHA Hazard Communication Standard, 29 CFR 1910.1200. In addition, other substances not "hazardous" per this OSHA standard may be listed.

Section #3: Hazards Identification

EMERGENCY OVERVIEW: Can be an irritant/severe irritant to eye, skin, or mucous membranes. May be corrosive depending on exposure time and concentration. NOTE: This is a laboratory use product for testing purposes. The use rate is drops to milliliters per day. The normal amount purchased is 1 1/4 oz.- 32 oz. at a time.

Potential Health Effects: See Section 11 For Toxicological Data

Effects of Acute Exposure: Eye: Irritation to severe irritation may occur. Possible burns with permanent damage depending on exposure time and concentration.
 Skin: Irritation to severe irritation may occur.
 Ingestion: Irritation to severe irritation may occur. May be corrosive to mucus membranes and gastrointestinal tract.
 Inhalation: Irritation to severe irritation may occur.

Effects of Chronic Exposure: Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation and may produce respiratory tract irritation.

Medical Conditions Generally Aggravated by Exposure: Pre-existing upper respiratory and lung diseases and pre-existing skin diseases may be aggravated.

Section #4: First Aid Measures

Eye: Check for and remove any contact lenses. Immediately flush with water for 15 minutes. Be sure eyelids are held open during flushing. If irritation persists, repeat flushing. Seek immediate medical attention.

Skin: Flush with water for at least 20 minutes. If irritation persists, repeat flushing. Wash thoroughly with soap and water. If irritation persists, seek medical attention immediately.

Inhalation: Remove to fresh air if effects occur. Consult physician if effects occur.

Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting. Irrigate esophagus and dilute stomach contents by slowly giving one or two glasses of water or milk. Consult physician, get medical attention.

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Section #5: Fire-Fighting Measures

NFPA Hazard Codes - (Health / Flammability / Reactivity):

2 / 0 / 0

Flash Point: Not Applicable

Flammable Limits: Not Applicable

Extinguishing Media: For small fires use dry chemical or carbon dioxide. For large fires, flood area with water from a distance.

Special Fire Fighting Procedures: Fire fighters should wear full protective gear including self-contained breathing apparatus.

Unusual Fire and Explosive Hazards: None Known

NFPA Code Legend:

4 - Severe Hazard
3 - Serious Hazard
2 - Moderate Hazard
1 - Slight Hazard
0 - Minimal Hazard

Section #6: Accidental Release Measures

Spill and Leak Procedure: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate. Prevent entry into sewers, basements or confined areas. Keep out of drains, sewers, lakes, streams, or other water systems.

Disposal: Dispose of in accordance with all applicable federal, state, and local health and environmental standards and regulations.

Section #7: Handling and Storage

Precautions to be Taken in Handling: Avoid contact with eyes, skin, and clothing.
Avoid breathing vapor.
Keep container tightly closed when not in use.
Do not ingest.
Wash thoroughly after handling.
Always add acid to water - NOT WATER TO ACID

Precautions to be Taken in Storage: Store in a cool, dry, secure place.
Store below 120°F and above 40°F
Normal shelf life 1 year.
Do not store with or near food supplies or potable water.
Store away from strong alkalis and alkali metal.

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Section #8: Exposure Controls / Personal Protection

- Ventilation:** Use adequate ventilation to keep below exposure limits.
- Eye Protection:** Chemical splash goggles and/or face shield. Eyewash fountain in the work place is strongly recommended.
- Skin Protection:** Chemical resistant gloves. Shower in the work place is strongly recommended.
- Respiratory Protection:** Use adequate ventilation to keep airborne levels below the exposure limits. Respiratory protection may be required for work areas where misting may occur.
- Other Protection Equipment:** Any other protective clothing or use of equipment necessary to prevent eye and skin contact.
- Permissible Exposure Limits:** OSHA PEL: Sulfuric Acid 1 mg/m³
ACGIH TLV: Sulfuric Acid 1 mg/m³
ACGIH STEL: Sulfuric Acid 3 mg/m³

Section #9: Physical and Chemical Properties

- | | |
|---|---|
| Appearance: Clear Colorless Liquid | Boiling Point (deg. F): >212°F |
| Odor: No Odor | Vapor Pressure: Similar To Water |
| pH (1% sol'n, unless noted): 1-2 | Vapor Density: Similar To Water |
| Solubility in Water: Complete | Evaporation Rate: Similar To Water |

Section #10: Stability and Reactivity

- Chemical Stability:** Stable
- Conditions to Avoid:** When Diluting Add Acid To Water DO NOT ADD WATER TO ACID
- Incompatibility:** Oxidizing Agents, Reducers, Strong Alkalis (Bases)
- Hazardous Decomposition Products:** Toxic Gases And Vapors (Like Sulfur Dioxide) May Be Released
- Hazardous Polymerization:** Will Not Occur

Section #11: Toxicological Information

This product may be irritating to eye, skin, and mucous membranes. May be corrosive depending exposure time and concentration.

- Ingredients as Carcinogens:** To the best of our knowledge, this product does not contain any substances that are considered by OSHA, NTP, IARC, or ACGIH to be 'probable' or 'suspected' human carcinogens.

Section #12: Ecological Information

No data available

Section #13: Disposal Considerations

Best route is to use product for its originally intended purpose.
Dispose of in accordance with all applicable environmental standards and in accordance with all local, state, and federal laws and regulations.

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Section #14: Transport Information

DOT Proper Shipping Name:

DOT Hazard Class:

DOT UN Number:

DOT Label:

DOT Packing Group:

The shipping name listed above applies to a 55 gallon drum of the product. This product may have more than one proper shipping name, depending on packaging, product properties, and mode of shipment.

Section #15: Regulatory Information

TSCA: All Ingredients Are On The TSCA Inventory Or Are Not Required To Be Listed On The TSCA Inventory.

RCRA Hazard Class: No Components Of This Product Are Listed.

CERCLA RQ: Listed "Sulfuric Acid" RQ 1,000 Lbs

SARA Title III

Extremely Hazardous Substance: Listed "Sulfuric Acid" RQ 1,000 Lbs

Hazardous Substance: Hazard Due To: Irritant

Hazard Catagorization:

<input type="checkbox"/> Sudden Release of Pressure	<input checked="" type="checkbox"/> Immediate (Acute) Health
<input type="checkbox"/> Reactive	<input type="checkbox"/> Delayed (Chronic) Health
<input type="checkbox"/> Fire	

Section 313 Chemicals: This product contains the following EPCRA Section 313 chemical subject to the reporting requirements of Section 313 of The Emergency Planning and Community Right-To-Know Act of 1986(40CFR372)

CAS#

Chemical Name

7664-93-9

Sulfuric acid (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)

This information should be included in all MSDS's for this material.

STATE RIGHT-TO-KNOW

CHEMICAL NAME

CAS NUMBER

LIST

Sulfuric Acid

7664-93-9

MA,MN,NJ1,NJ2,NY,PA1,PA3

MA=Massachusetts Hazardous Substance MN=Minnisota Hazardous Substance NJ1=New Jersey Hazardous Substance NJ2=New Jersey Special Health Hazard & Hazardous Substance NY=New York Hazardous Substance PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%) PA3=Pennsylvania Environmental Hazardous Substance (present at greater than or equal to 1.0%)

Section #16: Other Information

This is a laboratory use product for testing purposes. The use rate is drops to milliliters per day. The normal amount purchased is 1 1/4 oz. to 32 oz. at a time.

We believe that the statements, technical information, and recommendations contained herein are reliable. However, since data, safety standards, and government regulations are subject to change and conditions of handling and of use or misuse are beyond our control, and since health and safety precautions given may not be adequate for all individuals and/or situations, we make no warranty, either expressed or implied, with respect to the continuing accuracy of the information contained herein.