

Safety Data Sheet

Product Name: RG261: Nitrite-1 (Nit-1)

Revision Date: June 4, 2015

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Section #1: Chemical Product and Company Identification

Product Name: RG261: Nitrite-1 (Nit-1)

Other mean of identification: None

Chemical use/Restrictions: For industrial, commercial, institutional use only. Not intended for household use.

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: Hazards Identification

Signal Word: **Danger**



Corrosion

<u>Classification Number and Name</u>	<u>Appendix Reference</u>	<u>Hazard Statement</u>	<u>Hazard Category</u>
C.4.4 Skin Corrosion/Irritation	A.2	Causes severe skin burns and eye damage	1B
C.4.5 Eye Damage/Irritation	A.3	Causes serious eye damage	1
C.4.29 Corrosive to Metals	B.16	May be corrosive to metals	1

Precautionary Statements

Prevention

Keep only in original container.

Do not breathe dusts or mists.

Wash exposed body parts thoroughly after handling.

Wear eye protection/face protection

Wear protective gloves/protective clothing/eye protection/face protection.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

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/doctor.

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

Storage

Store locked up.

Store in a corrosive resistant container with a resistant inner liner.

Disposal

Dispose of contents/container to comply with all local, state, and federal regulations.

Other Hazards: No other hazards identified during the classification process.

Unknown Acute Toxicity: No ingredients of unknown toxicity.

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Section #3: Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Weight %</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
<input checked="" type="checkbox"/> Sulfuric Acid	7664-93-9	12-25%	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 #4: First Aid Measures

EMERGENCY OVERVIEW: Strong mineral acid. Causes eye, skin, and mucous membrane burns.

Eye: Immediately flush with water for 15 minutes - be sure eyelids are held open during flushing. Immediately consult physician.

Skin: Flush with water for 15 minutes.
If irritation occurs, consult physician.
Remove contaminated clothing.

Inhalation: Remove to fresh air if effects occur. If breathing is difficult, give oxygen. If not breathing, perform artificial respiration. Consult physician if effects occur.

Ingestion: Irrigate the esophagus and dilute stomach contents by slowly giving one (1) or two (2) glasses of water or milk.
Treatment should be symptomatic.
Consult physician - get medical attention.
Never give anything by mouth to an unconscious person.
If swallowed, seek medical attention.

Potential Health Effects: See Section 11 for toxicological data

Effects of Acute Exposure: Eye: Severe burns with possible permanent damage.
Skin: Severe burns may occur with possible permanent damage.
Inhalation: Vapor, fumes may cause coughing and sneezing.
Ingestion: Small amounts swallowed incidental to normal handling operations could cause injury, swallowing larger amounts than that will cause injury. Corrosive to mucus membranes. Corrosive to gastrointestinal tract.

Effects of Chronic Exposure: None known.

Medical Conditions Generally Aggravated by Exposure: Some asthmatics may have allergic reactions.

Section #5: Fire-Fighting Measures

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

3 / 0 / 1

NFPA Code Legend

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

Extinguishing Media: Use media suitable for surrounding fire.

Unusual Fire and Explosive Hazards: Gases containing sulfur may be released from decomposition of products residue.

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

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Section #6: Accidental Release Measures

Spill and Leak Procedure: Small spills: Wash area with water. Water must go to a treatment plant not to the environment. Large spills: Dike or contain material and recover it for use as originally intended. Contain spill. Keep out of drains, sewers, lakes, streams, or other water systems. Use non combustible, absorbent (sand, earth, vermiculite etc) to clean up. Transfer to suitable container for disposal. Wash residual with water. Water must go to a treatment plant not to the environment.

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
Do not ingest. Avoid breathing vapor.
Wash thoroughly after handling.

Precautions to be Taken in Storage: Normal shelf life 1 year.
Store below 120°F.
Do not store with or near food supplies or potable water.
Store in a cool, dry, secure place.
Keep container tightly closed.

Section #8: Exposure Controls / Personal Protection

Permissible Exposure Limits: OSHA PEL: 1 mg/m³ for Sulfuric Acid

Ventilation: Use adequate ventilation to keep airborne levels below the exposure limits.

Eye Protection: Chemical safety goggles.
Face shield.
Eyewash fountain in the workplace strongly recommended.

Skin Protection: Rubber gloves.
Splash apron.
Shower recommended.

Respiratory Protection: None needed, if ventilation is adequate and exposure limits are not exceeded. 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.

Section #9: Physical and Chemical Properties

Appearance: Clear Colorless

Odor: None

Odor Threshold: No Information Available.

pH (1% sol'n, unless noted): <2

Melting Point (deg. F): No Information Available.

Boiling Point (deg. F): Greater than 212

Flash Point: Greater than 200°F.

Evaporation Rate: Similar to water

Flammability (NFPA Rating): 0

Flammable Limits: None

Vapor Pressure: Similar to water

Vapor Density: Similar to water

Relative Density: No Information Available.

Solubility in Water: Complete

Partition Coefficient: No Information Available.

Auto-ignition (deg. F): No Information Available.

Decomposition (deg. F): No Information Available.

Viscosity: No Information Available.

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Section #10: Stability and Reactivity

Reactivity (NFPA Rating): 1

Chemical Stability: Stable

Hazardous Reactions: Will not occur.

Conditions to Avoid: Avoid temperatures above 120°F or below 40°F

Incompatibility: Aluminum.
Strong bases.
Chlorine sources.
Most metals.

Hazardous Decomposition Products: Sulfur containing gases.

Section #11: Toxicological Information

This product is corrosive to eyes, skin, mucous membranes etc.

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.
For strong inorganic acid mists: NPT rating 1

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 applicable environmental standards and in accordance with all local, state, and federal laws and regulations.

Section #14: Transport Information

DOT Proper Shipping Name: Sulfuric Acid

DOT Hazard Class: 8

DOT UN Number: UN 2796

DOT Label: Corrosive

DOT Packing Group: II

The shipping name listed above applies to a 55 gallon drum size (~500 lbs) of the product offered for ground transport. This product may have more than one proper shipping name, depending on packaging, product properties, and mode of shipment.

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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: Product waste may exhibit characteristic of corrosiveness.

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: Corrosiveness

Hazard Catagorization: Sudden Release of Pressure Immediate (Acute) Health
 Reactive Delayed (Chronic) Health
 Fire

Section 313 Chemicals: This product contains the following EPCRA Section 313 chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372)

CAS#	Chemical Name	% by Weight
7664-93-9	Sulfuric Acid (acid aerosols)	15-25

The information should be included in all MSDSs that are copied and distributed for this material.

STATE RIGHT-TO-KNOW

CHEMICAL NAME	CAS NUMBER	LIST
Sulfuric Acid	7663-93-9	FL,MA,MN,NJ1,NJ2,PA1,PA3

FL=Florida Toxic Substance MA=Massachusetts Hazardous Substance. MN=Minnesota Hazardous Substance
NJ1=New Jersey RTK Hazardous Substance NJ2=New Jersey TCPA Extremely 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

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This product is a testing reagent. The use rate is drops to mls. per day. The normal amount purchased is = or < a quart.

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.