

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: NuGenTec NR 1
Synonyms: Liquid Rust Inhibiting Compound - Nitrite
Chemical Family: Reducing Agent CAS Number: Blend

Company Identification

NuGeneration Technologies, LLC
7200 C.E. Dixon Street, Stockton, CA 95206 USA
(209) 234-5930 (For product information) www.nugentec.com
1-800-424-9300 or 1-202-483-7616 (CHEMTREC)

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
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SODIUM NITRITE	20.0 %	7632-00-0

(See Section 8 for exposure guidelines)(See Section 15 for regulatory information)

HAZARDS DISCLOSURE

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.
As defined under Sara 311 and 312, this product contains no known hazardous materials.

MISCELLANEOUS: Contains Sodium Nitrite, do not Mix with Amines or Acids.

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****
* The hazards of this product should be low under *
* normal industrial and commercial uses. *

HMIS Rating - Health: 1
Flammability: 0
Reactivity: 0
Personal Protection Index: B

NFPA Rating - Health: 1
Flammability: 0
Reactivity: 0
Special Hazard: None

NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

POTENTIAL HEALTH EFFECTS

EYE: Contact may cause eye irritation and burning sensation.

SKIN: Contact may cause skin irritation.

INHALATION: No known hazards in normal industrial use.

INGESTION: Ingestion is not considered a potential route of exposure. May cause diarrhea, nausea, abdominal cramps.

SIGNS AND SYMPTOMS OF EXPOSURE: If exposed areas are flushed promptly and thoroughly with soap and water, there should be little or no harm.

CHRONIC EFFECTS: Prolonged and/or repeated contact may produce mild to moderate skin irritation or inflammation.

REPRODUCTIVE HAZARDS: No known reproductive hazards.

CARCINOGENICITY INFORMATION: No known cancer hazards.

MISCELLANEOUS: Slippery, can cause falls if walked on.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Flush eye with water for 15 minutes. Get medical attention if irritation develops or persists.

SKIN CONTACT FIRST AID:

Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.

INHALATION FIRST AID:

Although this product is not known to cause respiratory problems, if breathing is difficult, remove to fresh air and provide oxygen.

INGESTION FIRST AID:

Get medical attention immediately. Do not induce vomiting.

STATEMENT OF PRACTICAL TREATMENT:

Always have plenty of water available for first aid.

NOTES TO PHYSICIAN:

Treat patient symptomatically.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES Autoignition Temperature: None

COC Flash Point: None TCC Flash Point: None

FLAMMABLE LIMITS IN AIR LEL: None UEL: None

EXTINGUISHING MEDIA: Will not burn.

FIRE & EXPLOSION HAZARDS: Material will not burn.

FIRE FIGHTING INSTRUCTIONS:

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Avoid breathing smoke, fumes, and decomposition products.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL): Protect skin and eyes from exposure. Wear appropriate personal protective equipment.

INITIAL CONTAINMENT: Contain spilled material. Floor may become slippery. Wash area to prevent slipping.

LARGE SPILLS PROCEDURE:

Flush spill area with water to wastewater treatment system. After removal, flush contaminated area thoroughly with water. Forms smooth, slippery surfaces on floors, posing an accident risk. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

SMALL SPILLS PROCEDURE:

Floor may become slippery. Absorb spills with inert material.

7. HANDLING AND STORAGE

RECOMMENDED STORAGE TEMPERATURE

Minimum: 4.4 C (39.9 F) Maximum: 48.9 C (120.0 F)

SHELF LIFE: (in original, sealed containers)

10 years @ 4.4 C 5 years @ 48.9 C

HANDLING (PERSONNEL): Avoid contact with eyes, skin, and clothing.

HANDLING (PHYSICAL ASPECTS): Keep container closed to avoid contamination. Do not store at temperatures above 49°C.

STORAGE PRECAUTIONS:

Avoid extreme temperatures, keep from freezing and do not store in direct sunlight. Keep container closed when not in use. Do not stack drums more than two pallets high. Do not stack pails more than three pallets high.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Good general ventilation should be sufficient to control airborne levels.

EYE / FACE PROTECTION REQUIREMENTS:

When splashing of the material may occur, chemical goggles and a face shield are recommended.

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination.

RESPIRATORY PROTECTION REQUIREMENTS:

Under normal use conditions, with adequate ventilation, no special handling equipment is required.

MISCELLANEOUS: Where an apron and protective clothing.

EXPOSURE GUIDELINES: No Information Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid
COLOR: Clear to Pale Yellow
ODOR: None
BOILING POINT: >212 F
SOLUBILITY IN WATER: Complete
SPECIFIC GRAVITY: 1.14 (Water = 1)
BULK DENSITY: 9.5
MELTING/FREEZING POINT: 32 F
PH: 8.5
% VOLATILES: 0 %
VOLATILE ORGANIC COMPOUNDS (VOC) ...: NONE
PH (1% B.V.): 8.0

10. STABILITY AND REACTIVITY

STABILITY: Stable.

POLYMERIZATION: Hazardous polymerization will not occur.

INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with Acidic conditions.

DECOMPOSITION: Decomposition will not occur if handled and stored properly.

CONDITIONS TO AVOID: This material is safe under normal storage and handling conditions.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Contact may cause eye irritation.

SKIN EFFECTS: Contact may cause slight skin irritation after extended periods of time.

ACUTE ORAL EFFECTS: No know hazards in normal industrial use.

ACUTE INHALATION EFFECTS: No know hazards in normal industrial use.

CHRONIC EFFECTS: There are no known or reported effects from repeated exposure.

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dilute with water, neutralize and discharge to an industrial sewage treatment facility. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements. For additional waste disposal information contact your local NuGenTec representative at (888) 99-NuGen or (209) 234-5930.

CONTAMINATED MATERIALS: Wash contaminated clothing before reuse.

CONTAINER DISPOSAL: Clean out containers prior to disposal.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL: NuGenTec NR 1
D.O.T. SHIPPING NAME: Compound, cleaning, liquid, NOBIN
TECHNICAL SHIPPING NAME ...: Class 55
D.O.T. HAZARD CLASS: Non-Hazardous
UN NUMBER: N/A PRODUCT RQ (LBS): 400
D.O.T. LABEL: rust removing or preventing compound NOBIN
D.O.T. PLACARD: N/A BULK CLASS: N/A
PACKAGE CLASS: 55

MISCELLANEOUS:

Export Classification, organic surface active agents (other than soap), washing preparations and cleaning preparations, schedule B # 3402.90.5030.

15. REGULATORY INFORMATION

EEC Symbols and Indications of Danger: None

WHMIS Hazard Symbols: None

Canadian Disclosure List SODIUM NITRITE (7632-00-0)

SARA Title III - Section 313 SODIUM NITRITE (7632-00-0)

CERCLA Hazardous Substances SODIUM NITRITE (7632-00-0) -- RQ 100 lb

MISCELLANEOUS INFORMATION: This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA).

16. OTHER INFORMATION

PREPARED BY: Donato Polignone

APPROVED BY: Milan Malek

TITLE: VP Research & Development

APPROVAL DATE: September 12, 2002

SUPERCEDES DATE ...: New

RTN NUMBER: 00000448 (Official Copy)

ADDITIONAL INFORMATION: The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process.

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