

Material Safety Data Sheet

SECTION 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: HRR ENSURANCE

Part Number: none

Chemical Family: Enzymatic cleaner

Manufacturer's Name: Siemens Industry, Inc. - Water Technologies Business Unit

Manufacturer's Address: 595 Industrial Drive Bradley, IL 60915

Product/Technical Information Phone Number: (815) 932-8154

Medical/Handling Emergency Phone Number: CHEMTREC (800) 424-9300
24 hours a day

Transportation Emergency Phone Number: CHEMTREC (800) 424-9300
24 hours a day

Issue Date: October 12, 2001

Revision Date/Revision Number: April 11, 2011/Rev.#2

SECTION 2 – COMPOSITION INFORMATION

Chemical Name

Percent by Weight

CAS#

There are no hazardous ingredients as defined in 29 CFR 1910.1200.

SECTION 3 – HAZARDS IDENTIFICATION

Appearance & Odor: yellow to straw colored liquid with floral odor

Emergency Overview:

- ◆ Contains no hazardous substances as listed in 29 CFR 1910.1200.
- ◆ May cause skin and eye irritation and may irritate the digestive tract if ingested.

Fire & Explosion Hazards: none

Primary Route(s) of Exposure: eye contact, skin contact

Inhalation – Acute Effects: There are no known inhalation effects associated with normal industrial use.

Skin Contact – Acute Effects: May cause skin irritation.

Eye Contact – Acute Effects: May cause eye irritation.

Ingestion – Acute Effects: Excessive ingestion may cause mild nausea or diarrhea.

SECTION 4 – FIRST AID MEASURES

Inhalation First Aid: Remove affected person from area to fresh air and provide oxygen if breathing is difficult. Give artificial respiration ONLY if breathing has stopped. Obtain medical attention if individual shows symptoms of exposure.

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Skin Contact First Aid: Immediately remove clothing from affected area and wash skin with flowing water and soap. Clothing must be washed before reuse. DO NOT instruct person to neutralize affected skin area. Obtain medical attention if irritation occurs.

Eye Contact First Aid: Immediately irrigate eyes with flowing water for 15-20 minutes while holding eyes open. Contacts should be removed before or during flushing. DO NOT instruct person to neutralize. Obtain medical attention if irritation occurs.

Ingestion First Aid: Do not induce vomiting. If victim is alert and not convulsing rinse mouth with water and give plenty of water to drink. If spontaneous vomiting occurs, have affected person lean forward with head down to avoid breathing in of vomitus. Rinse mouth again and give more water to drink. Obtain medical attention.

Medical Conditions Aggravated: None known.

Note to Physician: Treat patient symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point/Method: Not applicable.

Auto Ignition Temperature: Not applicable.

Upper/Lower Explosion Limits: Not applicable.

Extinguishing Media: Use the appropriate extinguishing media for the surrounding fire.

Fire Fighting Procedures: Firefighters should wear self-contained breathing apparatus and full protective gear.

Fire & Explosion Hazards: none

Hazardous Products of Decomposition and/or Combustion: None known.

NFPA Ratings:

HEALTH- 1 FLAMMABILITY- 0 REACTIVITY- 0 OTHER- none

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Clean up spill immediately. Contain and/or absorb spill with inert material (e.g. sand, vermiculite).

SECTION 7 – HANDLING AND STORAGE

Handling: Use appropriate personal protective equipment to prevent contact with eyes, skin and clothing. Use safe chemical handling procedures suitable for the hazards presented by this material. KEEP OUT OF REACH OF CHILDREN.

Storage: Store below 120°F (50°C) in a cool and dry place. Do not mix with other chemicals.

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General Comments: Empty containers may contain product residue-follow all precautions for the product even when container is empty.

SECTION 8 –PERSONAL PROTECTION/ EXPOSURE CONTROL

Respiratory Protection: None required under normal use conditions.

Skin Protection: Wear chemical resistant gloves and other protective clothing as appropriate to prevent skin contact.

Eye Protection: Wear safety glasses with side shields or goggles.

Ventilation Protection: Local exhaust is acceptable. Special exhaust is not required.

Other Protection: Eye wash fountains, or other means of washing the eyes with a gentle flow of cool to tepid tap water should be readily available in all areas where this material is handled or stored. Water should be supplied through insulated and heat-traced lines to prevent freeze-ups in cold weather. Employees should wash their hands and face before eating, drinking, or using tobacco products.

Exposure Limits: No occupational exposure limits have been established for this product.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor: yellow to straw colored liquid with floral odor

Vapor Pressure: not determined

Vapor Density (Air=1): >1

Boiling Point: 212°F

Melting Point: not applicable

Specific Gravity: 0.99-1.1

Solubility in Water: completely miscible

Volatile Percentage: nil

pH: 6-8

Flash Point/method: not applicable

Auto Ignition Temperature: not applicable

Upper/Lower Explosion Limits: not applicable

SECTION 10 – STABILITY AND REACTIVITY

Stability: This product is stable under normal use conditions.

Incompatibilities: None known.

Polymerization: Hazardous polymerization will not occur.

Decomposition: None known.

Conditions to Avoid: None known.

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SECTION 11 – TOXICOLOGICAL INFORMATION

Inhalation – Acute: There are no known inhalation effects associated with normal industrial use.

Inhalation – Chronic: There are no known chronic inhalation effects.

Skin Contact – Acute: May cause skin irritation.

Skin Contact – Chronic: There are no known chronic dermal effects.

Eye Contact – Acute: May cause eye irritation.

Ingestion – Acute: Excessive ingestion may cause mild nausea or diarrhea.

Ingestion – Chronic: There are no known chronic ingestion effects.

Carcinogenicity/Mutagenicity: There are no known carcinogenic/mutagenic effects.

Reproductive Effects: There are no known reproductive effects.

Neurotoxicity: There are no known neurotoxic effects.

Other Effects: There are no other known chronic effects.

Target Organs: This product will affect the eyes and skin.

SECTION 12 – ECOLOGICAL INFORMATION

No ecological effects of this product are known.

SECTION 13 – DISPOSAL CONSIDERATIONS

Material that cannot be used, or reprocessed for use, and empty containers should be disposed of in accordance with all applicable regulations. Product containers should be thoroughly emptied before disposal. Generators of waste material are required to evaluate all waste for compliance with RCRA and any local disposal procedures and regulations. NOTE: State and local regulations may be more stringent than federal regulations.

SECTION 14 – TRANSPORTATION INFORMATION

DOT Shipping Description: NON REGULATED

SECTION 15 – REGULATORY INFORMATION

CERCLA SECTION 103 (40CFR302.4): no RQ: none

SARA SECTION 302 (40CFR355.30): no

SARA SECTION 304 (40CFR355.40): no

SARA SECTION 313 (40CFR372.65): no

OSHA PROCESS SAFETY (29CFR1910.119): no

CALIFORNIA PROPOSITION 65: no

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SECTION 16 – OTHER INFORMATION

Disclaimer: The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the user thereof. It is the buyer's responsibility to ensure that its activities comply with federal, state, provincial and local laws.

Revision Indicator: April 2011, Revised Section 1 (Updated manufacturer's name)