



M A T E R I A L S A F E T Y D A T A S H E E T

PRODUCT NAME: ECONO-NHS
REVISION DATE: OCTOBER 2, 2008

**For Chemical Emergency (Spill, Leak, Fire, Exposure or Accident)
CALL CHEMTREC Day or Night 800-424-9300
For International, Call 703-527-3887 (Collect Calls Accepted)**

**** FOR INDUSTRIAL USE ONLY ****

Section I - Product Information and Company Identification

Product Use: Hydrogen Sulfide Inhibitor
DOT Hazard Class: Not Regulated

Section II – Composition, Information on Ingredients

Material	Cas #	Percent	TLV(units)
This product does not contain any hazardous ingredients			

Section III – Hazards Identification

Hazard Overview: Caution. Non-combustible liquid. May cause irritation to skin and eyes. Keep container closed when not in use. Use with adequate ventilation. Do not take internally. Avoid prolonged or repeated breathing of vapor. Avoid contact with skin, eyes or clothing. Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

Section IV – First Aid Measures

EYES: Flush with water for at least 15 minutes while holding eyelids open. Call a physician if irritation persists.

SKIN: Remove contaminated clothing. Wash exposed area with soap and water for at least 15 minutes. For a large splash flood body under a shower. Call a physician if rash or other symptoms develop. Launder clothes before reuse.

INGESTION: If victim is conscious, immediately give victim several glasses of water and induce vomiting. Keep head below hips to avoid aspiration. Give water until vomitus is clear. Call a physician. If possible, do not leave victim unattended.

INHALATION: Remove to fresh air. If breathing is difficult, administer oxygen. Treat symptoms. Keep victim warm and quiet. Seek immediate medical attention.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

Note To Physicians: Based on individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

Section V - Fire & Explosion Hazard Data

Flash Point: >325°F
Lower Explosive Limit: No Data Available

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Upper Explosive Limit: No Data Available

Extinguishing Media: While this product will not normally support combustion the use of water fog, dry chemical, foam, carbon dioxide or other extinguishing agent suitable for Class B fires is recommended. Use water to cool containers exposed to fire. For large fires, use water spray or fog, thoroughly drench the burning material.

Unusual Fire And Explosion Hazards: May evolve CO, CO₂ and/or NO_x under fire conditions. Containers exposed in a fire should be cooled with water to prevent vapor pressure buildup leading to rupture.

Section VI – Accidental Release Measures

In case of transportation accident, call the emergency response phone number: 800-535-5053

Spill Control And Recovery:

Small Spills: Contain with absorbent material, such as clay, soil or any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal. Refer to CERCLA in Section XIV.

Large Spills: Dike and prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERCLA in Section XIV. For large indoor spills, evacuate employees and ventilate area. Eliminate all sources of spark or flame. Those responsible for control and recovery should wear the protective equipment specified in Section X. Ventilate area and evacuate employees from exposure if the airborne concentration exceeds the TLV. Refer to Section XIV. This product is toxic to fish. Prevent flow/discharge into lakes, ponds, streams, waterways or public water supplies.

Section VII – Handling and Storage

Handling: Clean and dry process piping and equipment before any operation. Never return unused product to storage container. Keep away from incompatible products. Containers and equipment used to handle this product should be used exclusively for this material. Avoid any contact with water or humidity.

Storage: Store in a dry area, protected from heat sources and direct sunlight

Other Precautions: Warn personnel about the dangers of the product.

Section VIII - Personal Protection Information

Air Exposure Recommendations

Normal Use	Gas, Fumes, Mists Exceeds TLV	Special Thermal Spray Application
General Ventilation	General Ventilation	General Ventilation
1*	3*	3 *

*Respiratory protection codes:

1. None Needed
2. Particle-removing, air purifying respirator (Dusk Mask)
3. Gas and vapor-removing, air purifying respirator (Canister)
4. Full face mask, positive pressure-demand type (Air Supplied)

Eye Protection: Goggles, Face Shield

Skin Protection: Neoprene Gloves, Nitrile Gloves

Other Protective Equipment: Chemical Resistant Apron, Shoes

Section IX - Physical Data

Flash Point: >325°F

Pour Point: 0°F

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Boiling Point:	220°F	pH range:	9.5-11.0
Color:	Off-white	Odor:	Mild
Physical state:	liquid	Specific Gravity	1.15
% Volatiles	Not Determined	Vapor Density	>1.0 (Air = 1)
Density (lbs/gal.)	9.59	Viscosity	25cst @ 100°F

Section X - Reactivity Data

Incompatibility: Avoid contact with strong oxidizers (eg. chlorine, peroxides, chromates, nitric acid, perchlorates, concentrated oxygen, permanganates) which can generate heat, fires, explosions and the release of toxic fumes.

Thermal Decomposition Products: In the event of combustion CO, CO₂ and/or NO_x may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

NFPA RATINGS: HEALTH 2, FLAMMABILITY 1, REACTIVITY 1

HIMS RATINGS: FLAMMABILITY 1, REACTIVITY 1, HEALTH 2

Section XI – Toxicological Information

Primary Route(s) Of Exposure: Eye, Inhalation, Skin

Eye Contact: Irritating to the eyes. Symptoms may include stinging, tearing, redness and swelling.

Skin Contact: Repeated or prolonged skin contact can cause mild to severe skin irritation depending on the length of exposure and on the first aid action given. Symptoms may include redness and burning. Can cause allergic contact dermatitis in susceptible individuals.

Ingestion: Ingestion of large quantities (> ¼ cup) of this product may cause nausea, vomiting and diarrhea depending on the first aid action given.

Inhalation: Prolonged inhalation of mist or vapor can be harmful, causing irritation of the mucous membranes depending on the length of exposure and the first aid action given.

Symptoms of Exposure:

ACUTE: A review of available data does not identify any symptoms from exposure not previously mentioned.

CHRONIC: Prolonged skin contact can cause dry skin and de-fatting resulting in irritation and dermatitis. See Section VI for additional information.

Aggravation Of Existing Conditions: A review of available data does not identify any worsening of existing conditions.

Section XII – Ecological Information

No Data Available

Section XIII – Disposal Considerations

Disposal: If this product becomes a waste, it meets the criteria of a hazardous waste as defined under the Resources Conservation and Recovery Act (RCRA) 40 CFR 261. Hazardous Waste D001.

As a hazardous liquid waste, it must be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to a licensed industrial waste landfill (Hazardous Waste Treatment, Storage and Disposal facility). A hazardous liquid waste can also be incinerated in accordance with local, state and federal regulations.

Section XIV – Transport Information

DOT Hazard Class: Not Regulated

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Section XV – Regulatory Information

The following regulations apply to this product:

Federal Regulations:

OSHA's Hazard Communication Rule, 29 CFR 1910.1200: Based on our hazard evaluation, the following ingredients in this product are hazardous and the reasons are shown below: None
No Occupational Exposure Limits Are Established For Any Component Of This Product.

CERCLA/Superfund, 40 CFR 117, 302: This product does not contain any Reportable Quantity (RQ) substance.

SARA/Superfund Amendments And Reauthorization Act Of 1986 (Title III) – Sections 302, 311, 312 and 313:

Section 302 – Extremely Hazardous Substance (40 CFR 355): This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance

Section 311 and 312 – Material Safety Data Sheet Requirements (40 CFR 370): Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories.:

Delayed (chronic) health hazard

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of a hazardous chemical. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

Section 313 – List Of Toxic Chemicals (40 CFR 372): This product contains the following ingredient(s), (with CAS# and % range) which appear(s) on the List Of Toxic Chemicals: None

Toxic Substance Control Act (TSCA) (40 CFR 710): The chemical ingredients in this product are on the 8 (b) inventory list.

Resource Conservation Recovery Act (RCRA), 40 CFR 261 Subpart C & D: Consult Section XI for RCRA classification.

Federal Water Pollution Control Act, Clean Water Act, 40 CFR 401.15 (formerly Sec. 307), 40 CFR 116, (formerly Sec. 311): None of the ingredients of this product are specifically listed

LABELS: NONE

Section XVI – Miscellaneous

Disclaimer: **This information is furnished without warranty, expressed or implied, as to accuracy for completeness. This information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user

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