

GENESIS CHEMICAL

Safety Data Sheet

PRODUCT: DE-IRONIZE IT

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1. IDENTIFICATION

Product Name: De-Ironize It

Chemical Characterization: Aqueous Solution

Recommended Use: Industrial & Automotive Iron Fallout Remover

Manufacturer: Genesis Chemical
4626 Eagle Falls Pl, Tampa, FL 33619

Emergency Phone: **VelocityEHS: 1-800-255-3924**

2. HAZARD(S) IDENTIFICATION

GHS Classification Matrix:

Corrosive to Metals	Category 1
Acute Toxicity (Oral)	Category 4 (Toxicity: 1)
Skin Corrosion / Irritation	Category 1
Serious Eye Damage / Eye Irritation	Category 1

SIGNAL WORD: DANGER

Hazard Statements:

- May be corrosive to metals.
- Harmful if swallowed.
- Causes severe skin burns and eye damage.
- Causes serious eye damage.

Precautionary Statements — Prevention:

- Keep only in original container.
- Do not breathe mists, vapors, or sprays.
- Wash face, hands, and any exposed skin thoroughly after handling.
- Do not eat, drink, or smoke when using this product.
- Wear protective gloves, protective clothing, eye protection, and face protection.

Precautionary Statements — Response:

- **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

- **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor.
- **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
- **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 or doctor.
- **Absorb spillage to prevent material damage.**

Precautionary Statements — Storage & Disposal:

- Store locked up in a corrosive resistant container with a resistant inner liner.
- Dispose of contents and container in accordance with local, regional, national, and international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight-% Range
Ammonium mercaptoacetate	5421-46-5	25% – 30%
Alcohols, C10-16, ethoxylated, sulfates, sodium salts	68585-34-2	5% – 10%

**Note: The remaining components are non-hazardous water matrices or fall strictly below regulatory disclosure cut-offs.*

4. FIRST-AID MEASURES

- **Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, provide artificial respiration. Obtain immediate medical attention.
- **Skin Contact:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain immediate medical attention.
- **Eye Contact:** Immediately flush eyes with gently flowing water for at least 15 to 20 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Continue rinsing. Obtain immediate medical attention.
- **Ingestion:** Rinse mouth thoroughly with water. Do NOT induce vomiting unless explicitly directed by medical personnel. Never give anything by mouth to an unconscious individual. Obtain immediate medical attention.

5. FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
- **Specific Hazards Arising from the Chemical:** Under thermal degradation from external fire sources, toxic and highly irritating sulfur oxides, nitrogen oxides, and ammonia fumes may be released.
- **Special Protective Equipment:** Firefighters must wear full protective gear and self-contained breathing apparatus (SCBA) operating in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Use appropriate personal protective equipment. Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation. Evacuate non-essential personnel to safe areas.

- **Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not allow product to enter municipal sewers, surface water, or ground water systems.
- **Clean-up Methods:** Absorb spillage with an inert, non-combustible absorbent material (e.g., sand, earth, diatomaceous earth). Neutralize and handle waste in plastic containers. Clean surface thoroughly to remove residual contamination.

7. HANDLING AND STORAGE

- **Handling:** Handle in accordance with robust industrial hygiene protocols. Avoid contact with skin, eyes, and clothing. Do not breathe mists or vapors. Wear complete PPE. Wash thoroughly after handling. Do not eat, drink, or smoke in treatment zones.
- **Storage:** Keep containers tightly closed in a cool, dry, and well-ventilated containment area. Store locked up. Keep only in original corrosive-resistant packaging. Avoid contact with reactive metals (e.g., aluminum, zinc).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Regulatory Limits:

No established occupational exposure limits (PEL/TLV) by OSHA or ACGIH for Ammonium mercaptoacetate or the ethoxylated alcohol sulfate matrix.

Engineering Controls & Personal Protective Equipment (PPE):

- **Engineering Measures:** Provide emergency eye wash stations and safety showers in the immediate vicinity of work areas. Maintain mechanical local exhaust ventilation system to control atmospheric vapor concentrations.
- **Eye/Face Protection:** Tightly fitting chemical splash goggles and a full face shield must be worn to prevent ocular contact.
- **Skin Protection:** Chemical-resistant impervious gloves (Nitrile, Neoprene, or PVC) and long-sleeved protective clothing, apron, or full chemical suit must be utilized.
- **Respiratory Protection:** If exposure concentrations generate discomfort or inhalation limits are exceeded, utilize a NIOSH/MSHA approved respirator configuration optimized for acid/ammonia vapors.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Color:	Colorless liquid (turns purple when in contact with metals)	Odor:	Characteristic pungent, sulfurous
Formulation Type:	Aqueous Solution	Boiling Point:	Approx. 212°F (100°C)
Flash Point:	Non-flammable / Does not flash	pH:	6.5 - 7.5 (Typical range)
Solubility:	Completely miscible in water	Specific Gravity:	1.06 - 1.10

10. STABILITY AND REACTIVITY

- **Reactivity:** Reacts with metals, causing a distinct color shift to deep purple. May liberate trace gases.
- **Chemical Stability:** Thermally stable under recommended ambient storage environments.
- **Possibility of Hazardous Reactions:** Hazardous polymerization does not occur. Contact with strong acids may liberate toxic hydrogen sulfide gas.
- **Incompatible Materials:** Keep separated from strong acids, strong oxidizing agents, bases, and reactive bare metals.
- **Hazardous Decomposition Products:** Oxides of sulfur, oxides of nitrogen, and ammonia vapors during extreme heat thermal decomposition.

11. TOXICOLOGICAL INFORMATION

- **Primary Routes of Exposure:** Eye contact, Skin contact, Ingestion, Inhalation.
- **Inhalation:** Aggressive to the respiratory tract. May cause severe mucosal irritation, coughing, or chemical burns if high density mists are inhaled.
- **Skin Contact:** Corrosive. Causes severe chemical burns, skin irritation, and permanent dermal damage if untreated.
- **Eye Contact:** Corrosive. Causes serious eye damage, corneal burns, intense pain, and irreversible vision impairment or blindness.
- **Ingestion:** Harmful if swallowed. Causes intense corrosive destruction to the mouth, esophagus, throat, and gastrointestinal tract matrix.

12. ECOLOGICAL INFORMATION

- **Ecotoxicity:** Formulated thioglycolate and surfactant matrices are toxic to aquatic organisms. Prevent unmitigated discharge into local ecosystems, wastewater treatment structures, lakes, or streams.
- **Persistence & Degradability:** Specific data not fully evaluated for the formulated composite matrix.

13. DISPOSAL CONSIDERATIONS

- **Waste Classification:** This material may be classified as a D002 corrosive hazardous waste due to its metal corrosive properties. Check local, state, and federal hazardous waste guidelines to determine proper disposal routing.
- **Container Handling:** Empty containers must be triple-rinsed prior to recycling or discarding. Do not reuse empty container packaging for alternative compounds.

14. TRANSPORT INFORMATION

DOT Shipping Name: Corrosive Liquids, n.o.s. (Contains Ammonium mercaptoacetate)

UN Number: UN1760

Hazard Class: Class 8 (Corrosive)

Packing Group: PG III

15. REGULATORY INFORMATION

- **TSCA Inventory Status:** All raw components of this product are explicitly listed on the United States EPA Toxic Substances Control Act Chemical Substance Inventory or are exempt.
- **SARA Section 302/304:** No components in this material are subject to the reporting requirements of SARA Title III, Section 302/304.
- **California Proposition 65:** This product does not intentionally contain components recognized by the State of California to cause cancer, birth defects, or reproductive harm.

16. OTHER INFORMATION

National Fire Protection Association (NFPA) Rating Matrix:

Health Hazard	3 (Severe)
Flammability	0 (Minimal)
Instability	1 (Slight)

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of Genesis Chemical's knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release. It is not to be considered a warranty or quality specification.