



**SAFETY DATA SHEET
EACO CHEM, INC.**

Issue Date: 10/28/15 **Revision Date:** 7/11/17

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: GS RESTORATION

Recommended Use of the Mixture and Restrictions On Use:

Restricted To: For Professional Use Only

Uses Advised Against: Not Recommended for Household Use.

Details of the Supplier of the Safety Data Sheet

Manufacturers Address:

EaCo Chem, Inc.
765 Commerce Avenue
New Castle, PA 16101
724-656-1055

Emergency telephone number :

8:00 AM to 5:00 PM EST Monday-Friday 1-800-313-8505

Non-Business Hours (CHEM-TEL) 1-800-255-3924

2. HAZARDS IDENTIFICATION

2.1 Classification of Mixture

GHS Classification HCS 2012 (29 CFR 1910)

Hazard Class	Category	Hazard Statements	Precautionary Statements
Acute Toxicity – Oral	Category 4	H302	P260, P264, P270, P301+P312, P301+P330+P331
Skin Corrosion / Irritation	Category 1B	H314	P264, P280, P303+P361+P353, P363, P304+P340, P310, P321
Eye Damage / Irritation	Category 1	H318	P280, P305+P351+P338, P310
Specific Target Organs/Systemic Toxicity Following Repeated exposure	Category 2	H373	P260, P301, P312
Corrosive to Metals	Category 1	H290	P234, P390, P406, P501

2.2 Label Elements HCS 2012 (29 CFR 1910)

PICTOGRAMS



Signal Word: DANGER

Hazard Statements:

Hazard #	Hazard Statement
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:

Precautionary #	Precautionary Statement
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P234	Keep only in original container.
P260	Do not breathe dust, fumes or mist.
P264	Wash arms, hands and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves and eye protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or physician.
P321	Specific treatment (Wash areas of contact with water immediately).
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents in accordance with local, state, federal and international regulations.

2.3 Hazards Not Otherwise Classified (HNOC):

Burns from this product may not be immediately painful or evident. Exposures require fluoride specific treatment.

Other Information

3. COMPOSITION/INFORMATION ON MIXTURES

Hazardous Components

Chemical name	CAS number	%	Trade secret
Ammonium Hydrogen Difluoride	1341-49-7	3-7	*
Oxalic Acid	144-62-7	1-5	*
Hydrochloric Acid	7647-01-0	15-30	*
Glycol Ether EB	111-76-2	1-5	*
Balance	Trade Secret	Balance	*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.
Remove contaminated clothing.

If inhaled

If breathed in, move person to fresh air. Call a physician. If not breathing, give artificial respiration.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. May be absorbed through the skin. Effects may not appear immediately. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician immediately. Continue rinsing eyes during transport to the hospital.

If swallowed

Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed:

Immediately call a physician. Specific treatment (Wash areas of contact with water immediately.)

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Not combustible material. Use any means suitable for extinguishing surrounding fire.

5.2 Special hazards arising from the substance or mixture:

Not considered to be a fire or explosion hazard.

5.3 Advice for firefighters:

If evacuation of personnel is necessary, evacuate to an upwind area. Use protective clothing and NIOSH-approved breathing equipment appropriate for the surrounding fire.

5.4 Further information:

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up. Stop leak if you can do it without risk and avoid run off to waterways and sewers.

6.2 Environmental precautions:

Do not let product enter drains, waterways and sewers.

6.3 Methods and materials for containment and cleaning up:

Soak up with inert absorbent material and prepare for disposal.
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections:

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes. Keep container closed when not in use.

Additional Protective Measures: Safety showers and eyewash stations should be available. Educate and train employees in safe use of this product. Follow all label warnings and data sheet instructions.

7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Regulatory Requirements: No data found

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering controls: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Ensure that eyewash stations and safety showers are close to the workstation location.

Ventilation Control: Provide adequate ventilation to control airborne concentration below the exposure guidelines/limits.

Administrative controls: Educate and train employees in safe use of this product. Follow all label warnings and data sheet instructions.

Personal Protection: As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a hazard assessment of all workplaces to determine the need for proper protective equipment for each employee.

Eye Protection: Close fitting safety goggles. Face Protection shield

Skin and Body Protection: Wear protective gloves and protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- a) Appearance Form: liquid, water white
- b) Odor: Strong Scent
- c) Odor Threshold: Not Determined.
- d) pH: 1.0
- e) Melting point/freezing point: No data available
- f) Initial boiling point and boiling range: > 100 °C (> 212 °F) - lit.
- g) Flash point: No data available
- h) Evaporation rate: No data available
- i) Flammability (solid, gas): Not applicable
- j) Upper/lower flammability or explosive limits: No data available
- k) Vapor pressure: No data available
- l) Vapor density: No data available
- m) Relative density: 1.1 g/cm³ at 25 °C (77 °F)
- n) Water solubility: Fully Miscible
- o) Auto-ignition temperature: Product is not self igniting
- p) Decomposition temperature: No data available
- q) Viscosity: Water thin
- r) Explosive properties: Product does not present an explosion hazard
- s) Oxidizing properties: No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity: No data available

10.2 Chemical stability: Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions: No data available

10.4 Conditions to avoid: High heat, strong alkali

10.5 Incompatible materials: Strong alkali and oxidizing compounds

10.6 Hazardous decomposition products: No data available

10.7 Other decomposition products: No data available

10.8 Other Information: In the event of fire: See section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information: Causes Burns, Corrosive

Inhalation: Avoid breathing vapors. May be harmful if inhaled

Ingestion: Harmful if swallowed

Eyes: Corrosive and may cause severe damage including blindness

Skin: Causes burns and blisters with prolonged contact. Burns are not immediately evident. Pain does not occur upon immediate contact. Use treatment specific for burns caused by fluoride compounds.

Germ cell mutagenicity: No data available

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

Additional Information: No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity: No data available

12.2 Persistence and Degradability: No data available

12.3 Bioaccumulative Potential: No data available

12.4 Mobility in Soil: No data available

12.5 Other Adverse Ecological Effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Waste must be disposed of in accordance with federal, state and local environmental control regulations. Incineration is the preferred method.

Empty Container Precautions: Empty containers must be handled with care due to product residue. Decontaminate containers prior to disposal. Empty decontaminated containers should be crushed to prevent reuse. Do not heat or cut empty container with electric or gas torch.

Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT UN #: 1760

Proper Shipping Name: Corrosive Liquids, N.O.S.

Hazard Class: 8, 6.1

Packing Group: II

Important Note: *Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.*

15. REGULATORY INFORMATION

This listing is to highlight federal level regulations of the product. Individual states, and other nations may have further regulations not listed below.

Classification of Mixture:

US Federal Regulations:

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS NO	%	SARA 313 - RQ
Ammonium Hydrogen Difluoride	1341-49-7	3-7	100#
Hydrochloric Acid	7647-01-0	< 30.0	20000

SARA 311/312 Hazard Categories:

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

US State Right-to-Know Regulations:

Chemical Name	PA	MA	NJ
Ammonium Hydrogen Difluoride	X	X	X
Hydrochloric Acid	X	X	X

16. OTHER INFORMATION

HMIS® Hazard Ratings:

HEALTH	2
FIRE	0
REACTIVITY	2
PERSONAL PROTECTION	C*

4 = EXTREME / 3 = HIGH / 2 = MODERATE / 1 = SLIGHT / 0 = INSIGNIFICANT

*C: Chemical resistant gloves, goggles and apron.

Disclaimer: The Information compiled on this safety data sheet is considered accurate and true from the most current data available. The data and information provided in this safety data sheet is measured to be extremely accurate but there will be variances in data from different sources. Eaco Chem fully disclaims liability for any injury or loss from improper use or mishandling of the product or the product data given in this sheet. The specific data and information given in this sheet is described as reliable and accurate but the data and information can become incomplete given a special circumstance or condition. The parties using this information or material will be held responsible for determining best practice for the safe handling and use under any circumstance. The data and information for this material is for use for this specific product only and not to be combined for any other materials. It is the responsibility of the purchaser and user of this particular material to become familiar with all laws and regulations for disposal of containers, safe handling, and end results of the material for there are many laws and regulations related to each individual material.

END OF SDS