



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

**Issue Date:** 12/01/15 **Revision Date:** 8/3/2018

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

**Product Name:** EF-FORTLESS

**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
Skin Corrosion / Irritation	Category 2	H315	P264, P280, P270 P303+P362+P352, P363, P314
Eye Damage / Irritation	Category 2	H319	P280, P305+P352+P338, P315

**2.2 Label Elements HCS 2012 (29 CFR 1910)**

**PICTOGRAMS**



**Signal Word:** WARNING

## Hazard Statements:

Hazard #	Hazard Statement
H315	Causes skin irritation
H319	Causes serious eye irritation

## Precautionary Statements:

Precautionary #	Precautionary Statement
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P501	Dispose of contents/container according to federal, state & local regulations.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P362+P352	IF ON SKIN (or hair): Take off contaminated clothing. Wash with plenty of water/...
P305+P352+P338	IF IN EYES: Wash with plenty of water/Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P315	Get immediate medical advice/attention.
P363	Wash contaminated clothing before reuse.

## 2.3 Hazards Not Otherwise Classified (HNOC): Other Information

## 3. COMPOSITION/INFORMATION ON MIXTURES

### Hazardous Components

Chemical name	CAS number	%	Trade secret
Hydrochloric Acid	7647-01-0	3-8	*
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. If irritation persists, 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. Wash clothes before reuse. If irritation persists, call a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician immediately.

**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:**

No data available.

**5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media:**

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:**

Use protective clothing and NIOSH-approved breathing equipment appropriate for the surrounding fire if needed.

**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 or storm drains.

**6.2 Environmental precautions:**

Do not let product enter waterways or storm drains.

**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). Vapors may accumulate in confined or poorly ventilated areas so ensure adequate ventilation at all times. If ventilation is not possible wear respiratory protection. Use the product in a manner which minimizes splashes. Keep container closed when not in use.

### **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. In case of insufficient ventilation, wear suitable respiratory equipment.

**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 if needed.

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

**Respiratory Protection:** If 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, Amber color
- b) Odor: Mild biting odor
- c) Odor Threshold: Not Determined.
- d) pH: 2.0
- 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: 1.08 g/cm<sup>3</sup> at 25 °C (77 °F)
- n) Water solubility: Fully Miscible
- o) Auto-ignition temperature: No data available
- 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

**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:

Inhalation: May be harmful if inhaled

Ingestion: Harmful if swallowed

Eyes: Causes irritation and possible damage if left untreated.

Skin: Causes irritation with prolonged contact.

**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 Treatment Method:** If possible, recover product for intended use.

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Empty Container Precautions:** No data available.

**Contaminated packaging:** Dispose of as unused product.

## **14. TRANSPORT INFORMATION**

**DOT Classification:** Not regulated by the DOT.

**DOT Information:** No data available.

**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.

<b>Chemical Name</b>	<b>CAS NO</b>
Hydrochloric Acid	7647-01-0

**SARA 311/312 Hazard Categories:**

Acute Health Hazard	Yes
Chronic Health Hazard	No
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
Hydrochloric Acid	X	X	X

**16. OTHER INFORMATION****HMIS® Hazard Ratings:**

HEALTH	1
FIRE	0
REACTIVITY	1
PERSONAL PROTECTION	B*

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

\*B: Chemical resistant gloves and goggles.

Disclaimer: The information herein is given in good faith, but no warranty, either expressed or implied is made. Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein we cannot be sure or guarantee these are the only hazards which exist.

**END OF SDS**