

# SAFETY DATA SHEET

**Product Name:** FirmeWash Concentrate  
**Product Codes:** FW-1

## SECTION 1: Identification

**MANUFACTURER:** FirmeCrete Coatings LLC  
239 Driftwood Dr.  
Granite Shoals, Texas  
78654

**RAINGUARD PHONE:** (909) 270-0715

**POISON CENTER:** (800) 222-1222

**EMAIL:** support@firmecrete.com

**WEBSITE:** www.FirmeCrete.com

**REVISION DATE:** 06/15/2021

## SECTION 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 5  | H303              | P261, P264, P271, P285, P301 + P312, P301 + P330 + P331       |
| Skin Corrosion / Irritation                      | Category 1B | H314              | P264, P280, P303 + P361 + P353, P363, P304 + P340, P312, P321 |
| Eye Damage / Irritation                          | Category 1  | H318              | P280, P305 + P351 + P338, P310                                |
| Specific Target Organ Toxicity - Single Exposure | Category 3  | H335              | P260, P312  |

**Corrosive Metals**

Category 1

H290

P234, P390, P391, 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              |
| H303     | May be harmful if swallowed             |
| H314     | Causes severe skin burns and eye damage |
| H318     | Causes serious eye damage               |
| H335     | May cause respiratory 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  |
| P234            | Keep only in original packaging   |
| P260            | Do not breathe dust/fume/gas/mist/vapours/spray                           |
| P261            | Avoid breathing dust/fume/gas/mist/vapours/spray                          |
| P264            | Wash skin thoroughly after handling                                       |
| P271            | Use only outdoors or in a well-ventilated area                            |
| P280            | Wear protective gloves/protective clothing/eye protection/face protection |

|  |   |
|--|---|
| <b>P285</b>                                  | In case of inadequate ventilation wear respiratory protection   |
| <b>P301+P312</b>                             | IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell  |
| <b>P301+P330+P331</b>                        | IF SWALLOWED: Rinse mouth. DO NOT induce vomiting   |
| <b>P303+P361+P353</b>                        | IF ON SKIN (or hair): Immediately take off all contaminated clothing. Rinse skin with water (or shower)                         |
| <b>P304+P340</b>                             | IF INHALED: Remove person to fresh air and keep comfortable for breathing   |
| <b>P305+P351+P338</b>                        | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |
| <b>P310</b>                                  | Immediately call a POISON CENTER/doctor   |
| <b>P312</b>                                  | Call a POISON CENTER/doctor if you feel unwell  |
| <b>P321</b>                                  | Specific treatment (see First Aid Measures on Safety Data Sheet)  |
| <b>P363</b>                                  | Wash contaminated clothing before reuse   |
| <b>P390</b>                                  | Absorb spillage to prevent material damage  |
| <b>P391</b>                                  | Collect spillage  |
| <b>P406</b>                                  | Store in a corrosion resistant container with a resistant inner liner   |
| <b>P501</b>                                  | Dispose of contents/container according to federal, state, & local regulations  |
| <b>2.3 Hazards not otherwise classified:</b> | None known  |

## SECTION 3: Composition

### HAZARDOUS COMPONENTS

| CHEMICAL NAME | CAS # | % |
|---------------|-------|---|
|---------------|-------|---|

**OSHA:** The hydrochloric acid legal airborne permissible exposure limit (PEL) is 5 ppm, not to be exceeded at any time.

**NIOSH:** The recommended airborne exposure limit (REL) is 5 ppm, which should not be exceeded at any time. This product contains no more than 1 PPM hydrochloric acid.

## SECTION 4: First Aid Measures

### 4.1 Description of First Aid Measures

|                        |   |
|------------------------|---|
| <b>GENERAL ADVICE:</b> | Consult a physician. Show this safety data sheet to the doctor in attendance. Remove contaminated clothing.   |
| <b>EYE EXPOSURE:</b>   | Flush eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Seek immediate medical attention.   |
| <b>SKIN EXPOSURE:</b>  | Immediately remove contaminated clothing and shoes. Wash exposed areas with soap and water. Wash contaminated clothing before reuse. Consult a physician.   |
| <b>INHALATION:</b>     | Move the victim to fresh air. If the victim has difficulty breathing, administer oxygen. If breathing has stopped, initiate CPR. Seek immediate medical attention.  |
| <b>INGESTION:</b>      | DO NOT induce vomiting. Rinse mouth with water. Never give an unconscious person anything to drink. If conscious, treat for shock. Seek immediate medical assistance or the nearest poison control center. If unconscious and vomiting, turn the victim on their side to avoid choking. |

#### **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.

### **SECTION 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:**

Hydrogen chloride gas

#### **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 if necessary.

#### **5.4 Further Information:**

No data available

### **SECTION 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 the leak if you can do it without risk and avoid run off to waterways or storm drains.

#### **6.2 Environmental Precautions:**

Do not let the product enter drains, 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.

## SECTION 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 the container closed when not in use.
- 7.2 Conditions for Safe Storage, Including Any Incompatibilities:** Keep the 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.

## SECTION 8: Exposure Controls and Personal Protection

The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because use conditions will vary depending upon customer applications, specific safe handling procedures should be developed by a person knowledgeable of the intended use, working conditions, and equipment.

- 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 CONTROLS:** 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 or 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.

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

|  |   |
|--|---|
| <b>APPEARANCE FORM:</b>                                | Liquid, pale yellow to yellow             |
| <b>ODOR:</b>   | Strong Scent                              |
| <b>pH:</b>   | 1.2                                       |
| <b>MELTING POINT / FREEZING POINT:</b>                 | No data available                         |
| <b>INITIAL BOILING POINT AND BOILING RANGE:</b>        | > 100°C (>210°F) - lit.                   |
| <b>FLASH POINT:</b>                                    | No data available                         |
| <b>EVAPORATION RATE (ETHER = 1):</b>                   | >1.0                                      |
| <b>FLAMMABILITY (SOLID, GAS):</b>                      | Not applicable                            |
| <b>UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:</b> | No data available                         |
| <b>VAPOR PRESSURE:</b>                                 | As water                                  |
| <b>RELATIVE DENSITY:</b>                               | 1.15 g/cm <sup>3</sup> at 25°C (77°F)     |
| <b>WATER SOLUBILITY:</b>                               | Fully Miscible                            |
| <b>AUTO-IGNITION TEMPERATURE:</b>                      | Product is not self igniting              |
| <b>DECOMPOSITION TEMPERATURE:</b>                      | No data available                         |
| <b>VISCOSITY:</b>                                      | Water thin                                |
| <b>EXPLOSIVE PROPERTIES:</b>                           | Product does not present explosion hazard |
| <b>OXIDIZING PROPERTIES:</b>                           | No data available                         |

## SECTION 10: Stability and Reactivity

|   |  |
|---|--|
| <b>10.1 REACTIVITY</b>                          | No data available                            |
| <b>10.2 CHEMICAL STABILITY</b>                  | Stable under recommended storage conditions. |
| <b>10.3 POSSIBILITY OF HAZARDOUS REACTIONS:</b> | No data available                            |
| <b>10.4 CONDITIONS TO AVOID:</b>                | High heat, strong alkali                     |
| <b>10.5 INCOMPATIBLE MATERIALS:</b>             | Strong alkali and oxidizing compounds        |
| <b>10.6 HAZARDOUS DECOMPOSITION PRODUCTS:</b>   | No data available                            |
| <b>10.7 OTHER DECOMPOSITION PRODUCTS:</b>       | No data available                            |
| <b>10.8 OTHER INFORMATION:</b>                  | In the event of a fire see Section 5         |

## SECTION 11: Toxicological Information

### 11.1 Information on Toxicological Effects

#### Product Information:

|  |   |
|--|---|
| <b>INHALATION:</b>   | No data available   |
| <b>INGESTION:</b>  | Harmful if swallowed  |
| <b>EYES:</b>   | No data available   |
| <b>SKIN:</b>   | No data available   |
| <b>GERM CELL MUTAGENICITY:</b>                             | No data available   |
| <b>CARCINOGENICITY:</b>                                    | This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, or NTP. |
| <b>REPRODUCTIVE TOXICITY:</b>                              | No data available   |
| <b>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:</b>   | No data available   |
| <b>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE:</b> | No data available   |

**ASPIRATION HAZARD:** No data available

**ADDITIONAL INFORMATION:** No data available

## SECTION 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.

## SECTION 13: Disposal Considerations

**DISPOSAL:** Do not allow material to contaminate or cause to be discharged into any storm drain, lake, stream, pond, underground water supplies or any body of water. Incinerate and or bury waste and containers at an approved facility. Dispose of waste materials and containers in accordance with all federal, state and local health, safety and environmental regulations.

**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 containers with electric or gas torches.

**CONTAMINATED PACKAGING:** Dispose of unused product.

## SECTION 14: Transportation Information

**DOT (UN #):** 1760

**DOT PROPER SHIPPING NAME:** Corrosive Liquids, N.O.S.

**Hazard Class:** 8

**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.

## SECTION 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

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

## SECTION 16: Other Information

### HMIS RATING:

|              |    |
|--------------|----|
| HEALTH       | 2  |
| FLAMMABILITY | 0  |
| REACTIVITY   | 1  |
| PPE          | C* |

### KEY:

|              |
|--------------|
| 0 = Minimum  |
| 1 = Slight   |
| 2 = Moderate |
| 3 = Serious  |
| 4 = Severe   |

**\*C: Chemical resistant gloves, goggles, and aprons are recommended.**

| LEGEND:  |   |
|--|---|
| ACGIG - American Conference of Governmental Hygienists | IARC - International Agency for Research on Cancer        |
| OSHA - Occupational Safety and Health Administration   | TSCA - Toxic Substances Control Act                       |
| DOT - Department of Transportation                     | MSHA - Mine Safety Health Administration                  |
| PEL - Permissible Exposure Limit                       | TWA - Time Weighted Average                               |
| DSL - Domestic Substance List                          | NDSL - Non-Domestic Substance List                        |
| RCRA - Resource Conservation and Recovery Act          | V - Volume  |
| EPA - Environmental Protection Agency                  | NIOSH - National Institute for Occupational Safety Health |
| STEL - Short Term Exposure Limit                       | VOC - Volatile Organic Compound                           |
| HMIS - Hazardous Materials Information System          | NTP - National Toxicology Program                         |
| TLV - Threshold Limit Value                            | WHMIS - Workplace Hazardous Materials Information System  |

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