# Material Safety Data Sheet

Aluminum Prep

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## SECTION I - IDENTIFICATION

**PRODUCT NAME:** Aluminum Prep
**PRODUCT CODE:** 14107 ZP
**PRODUCT USE:** Cleaner & Welding Prep

EASTWOOD ALUMINUM PREP

## SECTION II – COMPOSITION/HAZARDOUS INGREDIENTS

| HAZARDOUS INGREDIENT | CAS NUMBER | OSHA PEL | ACGIH TLV |
|---|---|---|---|
| Phosphoric Acid | 7664-38-2 | 1 mg/m3 | 1 mg/m3 |
| Hydrofluoric Acid | 7664-39-3 | 3 ppm | 2 ppm |

## SECTION III – HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Corrosive to Skin, eyes, respiratory tract, and toxic if ingestion
**ROUTES OF ENTRY:** Inhalation, ingestion, skin absorption, skin and/or eye contact.
**EYES:** Vapors, liquid, or mist are irritating and causes stining, tearing, redness, swelling, severe brns and can result in corneal damage and blindness. Burning may not be immediately painful or visible.
**INGESTION:** May be harmful or fatal if swallowed. Causes severe gastrointestinal irritation, diarrhea, nausea, vomiting, abdominal pain, vomiting of blood, and burns to the mouth, throat, digestive tract and severe gastrointestinal irritation. The body will be depleted of calcium if not properly treated.
**INHALATION:** Inhalation of vapors can cause coughing, choking, inflammation of the nose, throat, and upper respiratory tract, headache, dizziness, nausea, and difficulty breathing. Prolonged or repeated exposure especially when sprayed may cause irreversible respiratory tract damage and/or may be fatal.
**SKIN:** Causes severe irritation, burns, redness, swelling, pain. Concentrated soluctions cause deep ulcers and discolor skin. HF will penetrate skin and attack underlying tissue and bone. Large burns have resulted in the removal of calcium from the bone.
**MEDICAL CONDITION AGGRAVATED:** Pre-existing disorders of Skin and lungs.
**CHRONIC HEALTH HAZARDS:** Possible liver, Kidney, blood damage, dental or skeletal fluorosis,

**CARCINOGENICITY:**
**OSHA:** No **ACGIH:** No **NTP:** No **IARC:** No **OTHER:** N/A

## SECTION IV - FIRST AID MEASURES

**INGESTION**: May be harmful or fatal if swallowed. Causes severe gastrointestinal irritation, diarrhea, nausea, vomiting, abdominal pain, vomiting of blood, and burns to the mouth, throat, digestive tract and severe gastrointestinal irritation. The body will be depleted of calcium if not properly treated.
**INHALATION**: Move to fresh air. If breathing is difficult, administer oxygen. Seek immediate medical attention.
**NOTE TO PHYSICIAN:** None

## SECTION V – FIRE-FIGHTING MEASURES

**FLASH POINT:** Not Tested
**FLAMMABLE LIMITS IN AIR, (% BY VOLUME) UPPER:** N/A **LOWER:** N/A
**EXTINGUISHING MEDIA:** Use media appropriate for surrounding fire.
**SPECIAL FIRE FIGHTING PROCEDURES:** Will not burn or support combustion.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Contact with some metals, particularly magnesium, aluminum and galvanized zinc can generate hydrogen rapidly which is explosive.
**HAZARDOUS COMBUSTION PRODUCTS:** None

## SECTION VI – ACCIDENTAL RELEASE MEASURES

**SPILL:** Wear recommended protective equipment. Dike spilled material. Recover as much spilled product as possible and collect in acid-resistant container. Neutralize with alkaline material (soda ash, lime), then use absorbent inert material and place in chemical waste container. Prevent from entering sewers, water sources or low lying areas. Ventilate area well before re-entry. Follow Local, State, and Federal regulations for proper disposal.
Large Spill: Only personnel trained in spill clean-up under 29 CFR 1910.120 should be involved with spill clean-up procedures. If run-off occurs notify appropriate authorities as required.

**WASTE DISPOSAL:** Waste and its solutions are assigned EPA Hazardous Waste number D002 and can be disposed of through a licensed waste disposal company.
**RCRA STATUS:** Waste likely considered Hazardous Waste D002 (Corrosive waste) due to the pH of the solution and the corrosive characteristic.

## SECTION VII – HANDLING AND STORAGE

**HANDLING AND STORAGE:** Loosen closure carefully. Minimize temperature extremes. Store in cool, dry, ventilated area with acid resistant floors and good drainage. Protect from physical damage. Keep out of direct sunlight and away from heat and incompatible materials. Keep containers closed when not in use. Do not wash out container and use for other purposes. When diluting, always add the acid to water; never water to acid. Protect from freezing
**OTHER PRECAUTIONS:** Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warning and precautions listed for the product. Keep out of the reach of children

## SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS / VENTILATION:** General ventilation adequate.
**RESPIRATORY PROTECTION:** Not required under normal conditions of use. If product is sprayed or used in a confined area a NIOSH / MSHA approved respirator may be advised in absence of proper environmental control. See 29 CFR 1910.134 or your safety equipment supplier.
**PROTECTIVE CLOTHING:** Chemical resistant rubber or neoprene apron and chemically resistant boots to avoid skin and clothing contact.
**ADDITIONAL MEASURES:** Avoid contact with skin or eyes and avoid breathing vapors. Wash hands after use.

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Clear, Colorless Liquid
**ODOR:** No distinct odor
**PHYSICAL STATE:** Liquid
**BOILING POINT:** 212°F
**FREEZING POINT:** <32
**VAPOR PRESSURE (mm Hg):** 17.5 @ 77°F (25°C)
**VAPOR DENSITY (AIR=1):** <1
**EVAPORATION RATE:** <0.01
**SPECIFIC GRAVITY (H2O=1):** 1.016@ 77° F (25° C)
**pH:** N/A
**SOLIDS (%):** N/A
**SOLUBILITY IN WATER:** 100 %
**VOLATILITY INCLUDING WATER (%):** >80%
**VOLATILE ORGANIC COMPOUNDS (VOC):** N/A
**DIELECTRIC STRENGTH (Volts):** N/A

## SECTION X – STABILITY AND REACTIVITY DATA

**CHEMICAL STABILITY:** Stable
**CONDITIONS TO AVOID:** Avoid contact with glass, metals
**INCOMPATIBILITY:** Avoid strong oxidizing agents, caustic materials, alkali metals and glass. Do not mix with any products.
**HAZARDOUS DECOMPOSITION OR BY-PRODUCT:** Oxides of Carbon, phosphorous, and sulfur, hydrogen fluoride, hydrogen gas. May react with metal to release highly flammable hydrogen gas.
**HAZARDOUS POLYMERIZATION:** Will not occur

## SECTION XI – TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION:** Hydrofluoric Acid - 7664-39-3 - LD 100 Oral, guinea pig: 80 mg/kg (2% solution); LC50 Inhalation, 1 h, rat: 850- 1,070 mg/m3; Corrosive.
Phosphoric Acid - 7664-38-2 - LD 50 Oral Ra: 1,530 mglkg; LD 50 Dermal Rabbit: 2,740 mg/kg.

## SECTION XII – ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** Not Available

## SECTION XIII – DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** Waste and its solutions are assigned EPA Hazardous Waste number D002 and can be disposed of through a licensed waste disposal company.
**RCRA STATUS:** Waste likely considered Hazardous Waste D002 (Corrosive waste) due to the pH of the solution and the corrosive characteristic.

## SECTION XIV - TRANSPORTATION INFORMATION

**PROPER SHIPPING NAME:** Consumer commodity

**HAZARD CLASS/DIVISION:** ORM-D
**UN/NA NUMBER:**
**PACKAGING GROUP:** None

**AIR SHIPMENT**
**PROPER SHIPPING NAME:** Corrosive Liquid, Acidic, Inorganic, N.O.S., (Containing Phosphoric Acid)
**UN/NA NUMBER:** UN 3264
**PACKAGING GROUP:** II

**SHIPPING BY WATER:**
**VESSEL (IMO/IMDG)**
**PROPER SHIPPING NAME:** Corrosive Liquid, Acidic, Inorganic, N.O.S., (Containing Phosphoric Acid)
**UN/NA NUMBER:** UN 3264
**PACKAGING GROUP:** II
**NOTE:**

## SECTION XV - REGULATORY INFORMATION

**TSCA STATUS:** All Chemicals are listed or exempt.
**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** None
**SARA 311/312 HAZARD CATEGORIES:** Hydrofluoric Acid - 7664-39-3; Phosphoric Acid - 7664-38-2; Acute health, chronic health
**SARA 313 REPORTABLE INGREDIENTS:** Hydrofluoric Acid - 7664-39-3; Phosphoric Acid - 7664-38-2
**CLEAN WATER ACT:** None

**STATE REGULATIONS:** CALIFORNIA PROPOSITION 65: None New Jersey Worker and Community Right-to-Know Act; Pennsylvania Worker and Community Right-to-Know Law; Hydrofluoric Acid - 7664-39-3

**INTERNATIONAL REGULATIONS:** In compliance with inventory for the following: Australian Inventory of Chemical Substances AICS, Inventory of Existing Chemical Substances - China-(IECS), Japan (ENCS) List (ENCS (JP)), New Zealand Interim Inventory of Chems. (NZ CLSC), EU list of existing chemical substances (EINECS), Korea Existing Chemicals lnv. (KECI) (KECI CKR)), Philippines PICCS (PICCS (PH)), Switzerland. Consolidated Inventory, Canada DSL Canada - WHMIS - Hydrofluoric Acid - 7664-39-3 - D1A Very Toxic Material Causing Immediate and Serious Toxic Effects; E Corrosive Material

| | | | |
|---|---|---|---|
| **NFPA HEALTH:** | **4** | **HMIS HEALTH:** | **4** |
| **NFPA FLAMMABILITY:** | 0 | **HMIS FLAMMABILITY:** | 0 |
| **NFPA REACTIVITY:** | 1 | **HMIS REACTIVITY:** | 1 |
| **NFPA OTHER:** | N/A | **HMIS PROTECTION:** | D |

## SECTION XVI - ADDTIONAL INFORMATION

**PREPARATION BY:** Tec Service

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