

#### 1. PRODUCT IDENTIFICATION

Product Name: METAL-OUT PLUS

Synonym(s): HEDP; 1-Hydroxyethylidene-1, 1-diphosphonic acid

Recommended Uses: Sequestering Agent

SDS Reference: 36

Company Information: ALLCHEM PERFORMANCE PRODUCTS, INC. <u>Distributed By:</u> POOLBLU ENTERPRISES, INC

6010 NW FIRST PLACE P.O. BOX 751

GAINESVILLE, FL 32607 LAKE GENEVA WI 53147

Tel: 352-378-9696

24 HOUR EMERGENCY NUMBER: INFOTRAC (TRANSPORTATION): 1-800-535-5053

### 2. HAZARD(S) IDENTIFICATION

Classification: CORROSIVE
Signal Word: DANGER

Hazard Statements: HEALTH HAZARDS:

Eye Damage - Causes serious eye damage - Category 1 - H315 Skin Irritation - Causes skin irritation - Category 2 - H315

PHYSICAL HAZARDS: Corrosive to many metals

Precautionary Corrosive. Causes serious eye damage and skin irritation. Wear protective gloves, eye protection and face

Statements: protection when handling this product. Wash thoroughly with soap and water after handling. Remove

contaminated clothing and wash before reuse.

Do not store product in mild steel, carbon steel, aluminum or other metals.

Eye Contact: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do -

continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact: Wash with plenty of soap and water. Call a physician if irritation persists.

Inhalation: Not data available Ingestion: Not data available

3. COMPOSITION PERCENT % CAS #

Chemical Name: 1-Hydroxyethylidene-1, 1-diphosphonic acid 28 - 30 2809-21-4

Phosphoric Acid 0 - 2 13598-36-2

4. FIRST AID

If In Eyes: Immediately flush eyes with large amounts of water for at least 15 minutes. If easy to do, remove any

contact lenses. Get immediate medical attention.

If on Skin or Clothing: Immediate first aid is not likely to be required. Wash with large amounts of water. If irritation persists, seek

medical attention.

If Inhaled: Immediate first aid is not likely to be required. If symptoms occur, remove to fresh air.

If Swallowed: Immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for

advice.

Note: Have the product container or label with you when calling a poison control center or doctor, or going for

treatment.

5. FIREFIGHTING MEASURES

Suitable / Unsuitable Recommended extinguishing media; alcohol resistant foam, CO2, powder, water spray.

Extinguishing Media: Do not use water jet.

Specific Hazards from Hazardous decomposition: CO, CO2, PxOy, phosphines.

Chemical:

Special Protective Firefighters, and other exposed, wear self contained breathing apparatus. Wear suitable protective

Equipment: clothing, gloves and eye/face protection.

Other Information: No data available.

**6. ACCIDENTAL RELEASE MEASURES** 



Personal Precautions: Avoid contact with skin, eyes and clothing. See Section 8 for Personal Protective Equipment.

Methods and Materials

Warn everybody in sewers, basements and workpits of danger of corrosive hazard.

for cleanup:

Large Quantities: Prevent liquid entering basements and workpits. Keep out of drains and watercourses. Contain liquid spillage with sandbags or other means to prevent entry into drains Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled

clothing and wash thoroughly before reuse.

Large Spillage: Absorb in earth or sand. Sweep up into containers for disposal. Do not use metal containers

for spilled material. Flush spill area with water.

Small Spillage: Treat with hydrated lime or soda ash. Wash away small spills with plenty of water.

### 7. HANDLING AND STORAGE

Handling: Keep container closed. Open and handle containers with care. Empty product containers may contain

residue. Do not reuse empty containers without commercial cleaning or reconditioning.

Storage: Store in a cool, well ventilated place away from incompatible materials. Do not allow product to freeze.

Incompatible material: Attacks many metals, corrosive aluminum and mild steel.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

OSHA permissible exposure limit:

No workplace exposure limits have been established for this product.

Appropriate Engineering

Controls:

Provide natural or mechanical ventilation to minimize exposure. If practical, use local exhaust ventilation at

sources of air contamination such as processing equipment.

Individual Protection

Measures:

Respiratory Protection - Avoid breathing vapor or mist. Use approved respiratory protection equipment when airborne exposure is excessive. If used, full face piece replaces the need for face shield and/or chemical goggles. Consult the respirator manufacturer to determine the appropriate type of equipment for

a given application. Observe respirator use limitations specified by the manufacturer.

Eyes Protection - Wear chemical goggles. Have eye wash facilities immediately available at any location

where eye contact can occur.

Skin Protection - Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wash thoroughly after handling. Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Consult the glove/clothing manufacturer to

determine the appropriate type glove/clothing for a given application.

Other Work Practices - Use good personal hygiene practices. Wash hands before eating, drinking, smoking

or using the toilet.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Flammability (solid/gas): Not Applicable Appearance: Colorless to pale yellow liquid.

Upper/lower Flammability or Not Applicable Odor: Mild odor

**Exposure limits:** Odor Threshold: No data available

Vapor Pressure: No data available

pH: <2.5 Vapor Density: No data available

Density: 9.68 lbs/gal

Melting No data available Point/Freezing Point:

Solubility(ies): Soluble in water Partition Coefficient: n-octanol/water: No data available

**Initial Boiling** No data available Point/Boiling Range:

Auto-ignition Temperature: Not Applicable Decomposition Temperature: No data available

Evaporation Rate: No data available Viscosity: No data available

### 10. STABILITY AND REACTIVITY

Stability/Reactivity: Material is stable under normal conditions.

Possibilities of Hazardous Polymerization: Will Not Occur.

Flash Point: Nonflammable

Hazardous Reactions:

Conditions to Avoid: No data available

Incompatible Materials: Strong oxidizing agents and strong bases.

Attacks many metals. Corrosive to aluminum and mild steel.



Hazardous Decomposition

CO, CO2, PxOy, phosphines.

Materials:

### 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: COMPONENT TOXICITY:

1-Hydroxyethylidene-1,1-diphosphonic acid:

Oral LD50: 2400 mg/kg Rat Dermal LD50: 10000 mg/kg Rabbit

Acute Toxicity Estimates (ATE):

Skin Corrosion - Category 2 - Causes skin irritation

Serious Eye Damage - Category 1 - Causes serious eye damage.

No other toxicity data is available.

Chronic Toxicity: No data available.

Reproductive Toxicity: No data available.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA,

NTP or EPA.

Mutagenicity: No data available.

#### 12. ECOLOGICAL INFORMATION

Aquatic Toxicity: (Based upon 60% HEDP)

Bluegill - 96 h LC50: 868 mg/l Rainbow trout - 96 h LC50: 368 mg/l Daphnia Magna - 48 h EC50: 527 mg/l

Algae: 96h EC50: 3 mg/l (Algae growth inhibition is due to the ability of HEDP to complex materials and not

to toxicity per se.)

Avian Toxicity: No data available.

Environmental Hazards: No data available.

### 13. DISPOSAL CONSIDERATIONS

Disposal: Observe all federal, state and local regulations when disposing of this product/container.

Empty containers may retain product residue. Empty drums should be completely drained, properly bunged

and promptly returned to drum reconditioner, or properly disposed of.

#### 14. TRANSPORATION INFORMATION

Transportation: Please refer to applicable regulations or call company noted under Section I.

### **15. REGULATORY INFORMATION**

TSCA: USA: Reported in the EPA TSCA Inventory.

SARA (311, 312): Acute Health Hazard

SARA 313: None of the ingredients are listed.

Right To Know California Proposition 65: not listed.

Hazardous Substance New Jersey - Phosphorous Acid >1%

List:

Waste Classification: No data available.

Workplace This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

Classification:
CERCLA Reportable Not applicable.

Quantity:

# 16. OTHER INFORMATION

ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL. Due to the changing nature of regulatory requirements, the REGULATORY INFORMATION listed in Section 15 of this document should NOT be considered all-inclusive or authoritative. International, Federal, State and Local regulations should be consulted to



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HMIS Rating: No data available NFPA Rating: No data available

Revision Date: 5/27/2015 Special Hazard Warning: Not applicable