

SILVER FERN CHEMICAL, INC Safety Data Sheet

Updated: 02/09/2022

Hydroxyethane Diphosphonic Acid 60% (HEDP 60)

Section I: Identification:

Product Name: Hydroxyethane Diphosphonic Acid 60% (HEDP 60)
Synonyms: Etidronic acid;1-Hydroxyethane-1,1-diphosphonic acid

Chemical Family: Phosphonates

Applications: Water Treatment, Corroion Inhibitor, Deflocculant, Oilfields, Metal Surfact Treatment.

Details of the supplier of the safety data sheet

Company: Siliver Fern Chemical, Inc.

2226 Queen Anne Ave N Seattle, WA 98109

USA

Customer Service: 1-206-282-3376 / info@silverfernchemical.com

Emergency telephone

number INFOTRAC 1-800-535-5053 (USA & Canada) Outside USA & Canada 1-352-323-3500

SECTION II. HAZARD(S) IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity	Category	Hazard statement			
Substances and mixtures corrosive to metals	1	H290			
Acute toxicity	4	H302			
Eye irritation	1	H318			
Toxic for the aquatic organisms, with lasting noxious effects	2	H411			

HAZARD PICTOGRAMS:



SIGNAL WORD:

Danger

HAZARD STATEMENTS:

H290 May be corrosive to metals H302 Harmful if swallowed H318 Causes serious eye damage H411 Toxic for water organisms

PRECAUTIONARY STATEMENTS:

P102 Keep out of the reach of children

P103 Read the label before use

P264 Wash skin/face after handling.

P262 Avoid all contact with eyes, skin, or clothing.

P270 Do not eat, drink or smoke while handling this product.

P280 Wear protective gloves/clothing/eye/face protection equipment.

P301+P312 In case of ingestion call a poison control center or doctor if the person feels unwell.

P305+P351+P338+P310 In case of contact with the eyes: rinse carefully with water for several minutes. Remove contact lenses, if present and easy. Keep clarifying. Immediately call a doctor.

P390 Absorb spillage to prevent material damage.

P406 Store in a corrosion resistant container.

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SECTIÓN III. COMPOSITION/ INFORMATION ON INGREDIENTS

 Component
 CAS No.
 % Weight
 Molecular Weight

 1-Hydroxyethane-1, 1-diphosphonic acid
 2809-21-4
 58-62
 206

 Water
 7732-18-5
 38-42
 18.01528

SECTION IV. FIRST-AID MEASURE

	EYES	INHALATION	SKIN	INGESTION		
FIRST AID.	plenty of water, at least 15 minutes. Seek medical advice should irritation	shoes. If breathing is	Wash off skin with soap and water. Get medical attention if irritation develops or persists.	induce vomiting. Consult		

SECTION V. FIRE -FIGHTING MEASURES

WATER SPRAY		YES		NO	X
FOAM		YES		NO	Χ
CARBON DIOXIDE		YES	Х	NO	
OTHER	Dry chemical powder				
DECOMPOSITION PRODUCTS	CO₂/CO.				
UNUSUAL FIRE AND EXPLOSION HAZARDS	Any				
PROCEDURE IN CASE OF FIRE	In case the product is involved in a fire. Isolate the area.				
	Eliminate sources of ignition. Fight the fire from a safe distance.				
PERSONAL PROTECTION EQUIPMENT	Personal protection equipment. If necessary, use self-contained				
	breathing apparatus for firefighting.				

SECTION VI. ACCIDENTAL RELEASE MEASURE

RISKS OF LEAKS AND SPILLS. The product is slippery if it is spilled on the floor

METHOD FOR DISPOSING OF THE MATERIAL. First all sources of ignition must be eliminated, Do not handle damaged containers or spilled material, Do not handle damaged containers or spilled material, if it is possible to stop the leak as soon as possible after performing this procedure, make a fence with sand, which will contain the spill avoiding its spreading, likewise the sand will absorb the spilled material, where it can finally be placed in the corresponding containers. Do not introduce water to containers.

EQUIPMENT TO BE USED IN LEAKS AND SPILLS. Protective clothing against chemical products, neoprene or nitrile gloves, googles or mask.

SECTION VII. HANDLING AND STORAGE.

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with eyes. Wash thoroughly after handling. As with chemicals, good industrial hygiene practices should be followed when handling this material

CONDITIONS FOR SAFE STORAGE, ANY INCOMPATIBILITIES: Avoid freezing or excessive heat. Do not handle or store near an open flame, heat or other sources of ignition. Keep the containers tightly closed and in a cool, well-ventilated place.

SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION.

Engineering controls must have an extraction system or some other engineering system to maintain the concentration of air or vapors below its limit value of the respective threshold. Make sure the station washes eyes and the safety shower is close to your workplace.

Protective equipment:

Safety glasses Nitrile gloves Safety shoes Helmet Work wear

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES.

CECTION IX. I THOUGHE AND CHEMICAET NOT ENTIES.		
APPEARANCE:	Colorless liquid transparent-slightly yellow	
BOILING POINT (° C):	94	
MELTING POINT (° C):	Not available	
VAPOR DENSITY (Air = 1):	Not available	
FLASH POINT (° C):	Not available	
TEMPERATURA OF AUTOIGNITION (° C):	Not available	
VAPOR PRESSURE (mmHg 20 ° C):	Not available	
LIMIT FLAMMABILITY:	Not available	
SPECIFIC GRAVITY (g / ml):	1.40 minimum	
WATER SOLUBILITY:	Soluble	
% VOLATILIZATION BY WEIGHT (105 ° C FOR 30 MIN.):	Not available	
pH (1% water):	2.0 maximum	

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SECTION X. STABILITY AND REACTIVITY.

STABLE		YES	Х	NO	
CORROSIVE		YES	X	NO	
HAZARDOUS POLYMERIZATION		YES		NO	Χ
CONDITIONS TO AVOID	Stay away from sources of ignition, fire, heat or sparks. Avoid				
	high temperatures.				
INCOMPATIBILITY	Strong acids or oxidizing agents				
HAZARDOUS DECOMPOSITION PRODUCTS	CO ₂ / CO.				

SECTION XI. TOXICOLOGICAL INFORMATION.

Acute toxicity: May be harmful if swallowed

LD50-Oral-Species-Rat: 1878 mg/kg

LD50-Skin -Especie-Rata: 3500 mg/kg

Skin: Data not available

Causes serious eye damage Eyes:

Respiratory: Data not available Ingestion: Data not available Carcinogenicity: Data not available Teratogenicity Data not available Germ Cell Mutagenicity: Data not available Specific Target Organ Toxicity: Data not available Reproductive Toxicity: Data not available Respiratory/Skin Sensitization: Data not available

SECTION XII. ECOLOGICAL INFORMATION.

Ecotoxicity

Fish: LC50, 200 mg/L, 72 h. Acuatic Invertebrate: EC50, 527 mg/L, 48 h.

Terrestrial: Data not available

Persistence and Degradability Data not available Bioaccumulatve Potential Data not available Mobility in Soil Data not available Others Adverse Effects Data not available

SECTION XIII. DISPOSAL CONSIDERATIONS

WASTE RESIDUES: Storage and disposal must be in accordance with applicable local, state and federal disposal regulations. Compliance with applicable laws are the responsibility solely of the generator

PRODUCT CANTAINERS: Dispose of in a manner in accordance with local and national regulations

SECTION XIV. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name: Corrosive liquid, Acidic, organic, n.o.s.

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UN Number: 3265
Proper Shipping Name: Corrosive liquid, Acidic, Organic, N.O.S.

Class or Division: 8 Corrosive material Packing Group: III Substances presenting low danger



UN Number: 3265

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Class or Division: 8 Corrosive material

Packing Group: III EmS number F-A, S-B

SECTION XV. REGULATORY INFORMATION

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt, D) Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed

SARA 311/312 Hazardous chemical YES

Classified hazard categories Acu

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated

Safe Drinking Water Act (SDWA)

Not regulated

US state regulations

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

SECTION XVI. OTHER INFORMATION

Special precautions. The ones described in this document.

Additional comments. Information related to this material may not be valid, if it is used in combination with other materials or in other processes. It is the user's responsibility to interpret and apply this information for their particular use.

Modification date: February 09th, 2022

16. OTHER INFORMATION

DISCLAIMER OF RESPONSIBILITY:

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.