

FLUIDRA

MATERIAL SAFETY DATA SHEET

BIU52 METAL REMOVER

Section 1 - Product and Company Information

Product detail

Product Name: XF-334 HEDP
Synonyms: 1-Hydroxyethylidene -1, 1-diphosphonic acid, Sequestrants

Manufacturer/Supplier

Company Name: Fluidra Waterlinx (Pty) Ltd
Address: 5 Kruger Street, Denver, Johannesburg, 2031
Tel: 011 037 8400
Website: www.fluidrawaterlinx.co.za

Section 2 - Composition/Information on Ingredients

Product Name: Blu52 Metal Remover
Common Name: Deflocculant
Family Name: Organic, Acids and Derivatives
Molecular Formula: C₂H₈O₇P₂
Molecular Weight: 206
CAS No.: 2809-21-4

Section 3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Flammability: 1
Reactivity: 0
Health: 2
Hazard Data: Corrosive Irritating
Class or division: 8

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Section 4 - First Aid Measures

AFTER INHALATION

Be impossible to happen. If inhaled, wash mouth and nose.

AFTER SKIN CONTACT

Get medical aid. Flush skin with plenty of soap and water while removing contaminated clothing and shoes.

AFTER EYE CONTACT

Flush eyes with plenty of water. Assure adequate flushing of the eyes by separating the eyelids with fingers. Call a physician.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Drink about 500ml Water. Don't throw up. Call a physician.

Section 5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Water spray, carbon dioxide, alcohol-resistant foam, dry chemical powder. Never use water jet.

SPECIAL RISKS

Decomposes in a fire giving off irritant fumes and vapors: CO; CO₂; Pox

The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. This product is likely to decompose only after heating to dryness, followed by further strong heating. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

Do not discharge concentrated, undiluted product into lakes, streams, ponds, estuaries, oceans and other waters

Procedure(s) of personal precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Methods for cleaning up

Cover with dry lime, pick up, keep in a closed container, and hold for waste disposal.

Ventilate area and wash spill site after material pickup is complete.

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Section 7 - Handling and Storage

Handling

Directions for Safe Handling: Do not breathe vapor or mist. Do not get in eyes, on skin, on clothing.

Storage

Conditions of Storage: Store in a well-ventilated, cool dry place. Protect from sunlight

Section 8 - Exposure Controls / Personal Protection

Engineering controls

Safety shower and eye bath. Use only in a chemical fume hood.

Personal protective equipment

Special Protective Measures: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Face shield (8-inch minimum).

General hygiene measures

Wash thoroughly after handling. Wash contaminated clothing before reuse. Discard contaminated shoes.

Section 9 - Physical/Chemical Properties

Physical State:	Liquid
Color:	Clear Colorless to Pale Yellow
Odor:	Slight Characteristic
Boiling Point:	Approximately 100°C at 100kPa.
Freezing/Melting Point:	Approximately 0°C
Volatiles:	Water component.
Vapor Pressure:	2.37 kPa at 20°C (water vapor pressure).
Vapor Density:	As for water.
Specific Gravity:	1.1 at 20°C
Water Solubility:	Miscible.
pH:	N/A
Volatility:	N/A.
Odor Threshold:	N/A.
Evaporation Rate:	As for water.
Coeff Oil/water Distribution:	N/A.
Auto ignition temp:	Does not burn.

Section 10 - Stability and Reactivity

Stability

Stable under normal conditions of use and storage. Do not expose to extreme

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temperatures

Hazardous decomposition products

CO; CO₂; P_xO_y; Phosphines

Attacks many metals. Corrosive to aluminium and mild steel. Contact with strong oxidising agents. Contact with strong bases.

Hazardous polymerization does not occur.

Section 11 - Toxicological Information

ACUTE TOXICITY

Oral LD50 (rat):	2400 mg/kg, slightly toxic following oral administration.
Dermal LD50 (rabbit):	7940 mg/kg; particularly nontoxic after skin application in animal studies.
Eye Irritation (rabbit):	Corrosive
Skin Irritation (rabbit):	Particularly non irritating to skin (rabbit), 24hr

ROUTE OF EXPOSURE

Multiple Routes: Harmful if swallowed, inhaled, or absorbed through skin.

Section 12 - Ecological Information

Environmental Stability

This product should be stable under normal environmental conditions

Effects on Plants or Animals

Algae growth inhibition is due to the ability of XF-334 to complex materials and not to toxicity per se

Effect of chemical on Aquatic life

No evidence has proven it detrimental to aquatic life

Section 13 - Disposal Considerations

Appropriate method of disposal of substance or preparation

Product is hazardous waste due to pH. Dispose in an approved landfill.

Section 14 - Transport Information

Chemical name:	XF-334 HEDP
Hazard class number, description:	8
UN identification number:	3265
Packing group:	II
Dot label (s) required:	N/A
Emergency response guide number:	N/A

Section 15 - Regulatory Information

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CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: C

Corrosive. Organic. Acidic

R-PHRASES: 20,35

Harmful by inhalation. Causes severe burns.

S-PHRASES: 26,28,36,37,38,39

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 28: In case of contact with skins, wash immediately with water and soap.

S 36/37/38/39: Wear suitable protective clothing, gloves and eye/face protection.

Section 16 - Other Information

Warranty

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall **Fluidra Waterlinx (Pty) Ltd.** be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if **Fluidra Waterlinx (Pty) Ltd.** has been advise the possibility of such damages.