

PTB-25

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Family / Chemical Name	Mixture
CAS No.	Mixture
Trade Name	PTB-25
Product Code	None

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Precipitant
Uses Advised Against	None
Company Identification	ECOLOGIX ENVIRONMENTAL SYSTEMS, LLC 11800 Wills Road, Ste 100 Alpharetta, GA 30009 USA

Telephone	(678) 514-2100
Fax	(678) 514-2106
E-mail	info@EcologixSystems.com

Emergency telephone number

Emergency Phone No.	888-326-2020
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SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)	Skin Irrit. 2; Eye Dam. 1
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Label elements

Hazard Symbol



WARNING

Signal Word(s)

Hazard Statement(s)

May Cause skin irritation.
May Cause eye damage.

Precautionary Statement(s)

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

Wash thoroughly after handling.

IF ON SKIN: Wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Seek medical treatment.

Other hazards

Contact with acids liberates very toxic gas. Toxic to aquatic life.

Additional Information

Warning - this preparation contains a substance not yet tested completely. (>10%)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt.	CAS No.
Proprietary hydropolysulfide, carbonothioylbis-, disodium salt solution	Trade Secret	128578-22-3

Additional Information - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below.:

- Contact with acids liberates very toxic gas.: Hydrogen sulfide (H₂S)

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is laboured, administer oxygen. If symptoms occur obtain medical attention.
Skin Contact	Wash affected skin with plenty of water. If irritation (redness, rash, blistering) develops, get medical attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
Ingestion	If ingested, rinse mouth. Do not induce vomiting. Seek medical treatment.

Most important symptoms and effects, both acute and delayed None anticipated

Indication of any immediate medical attention and special treatment needed Treat symptomatically

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media	Non-combustible / Non-flammable. As appropriate for surrounding fire.
-Unsuitable Extinguishing Media	As appropriate for surrounding fire.

Special hazards arising from the substance or mixture None known.

Advice for fire-fighters A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Put on protective equipment before entering danger area. Wear protective gloves/protective clothing/eye protection/face protection.

Environmental precautions Prevent substance entering sewers.

Methods and material for containment and cleaning up Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

Reference to other sections None

Additional Information None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Wear protective gloves/protective clothing/eye protection/face protection. Do not mix with: Acids

Conditions for safe storage, including any incompatibilities

-Storage temperature No special measures are required.

-Incompatible materials Contact with acids liberates very toxic gas.

Specific end use(s) Precipitant

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		STEL		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Hydrogen sulfide (H ₂ S)	7783-06-4	----	1 ppm	20 ppm (Ceiling)*	5 ppm	50 ppm (Peak) - 10 min.^

^ once, only if no other meas. exp. occurs

Recommended monitoring method Real-time (electrochemical sensors)

Exposure controls

Appropriate engineering controls Ensure that the eye flushing systems and safety showers are located close to the working place.

Personal protection equipment

Eye/face protection



The following to be used as necessary: Goggles giving complete protection to eyes. Full face shield.

Skin protection (Hand protection/ Other)



The following to be used as necessary: Gloves (Neoprene or Natural rubber). Chemical protection suit. Wear safety or chemical resistant shoes or boots. Check with protective equipment manufacturer's data.

Respiratory protection



Normally no personal respiratory protection is necessary.

Thermal hazards

Not normally required. Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls

Collect all precipitate. Disposal should be in accordance with local, state or national legislation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Color	Yellow
Odor	Sulfur-like
Odor Threshold (ppm)	Not available
pH (Value)	12.35
Melting Point (°C) / Freezing Point (°C)	ca. 0 (32 °F)
Boiling point/boiling range (°C):	ca.100 (212 °F)
Flash Point (°C)	Non-combustible / Non-flammable
Evaporation Rate	Similar to Water
Flammability (solid, gas)	Not applicable
Explosive Limit Ranges	Not applicable
Vapour pressure (Pascal)	Similar to Water
Vapour Density (Air=1)	Similar to Water
Density (g/ml)	1.055
Solubility (Water)	Miscible
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	Non-combustible / Non-flammable
Decomposition Temperature (°C)	Not available
Kinematic Viscosity	Similar to Water
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Other information	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	Contact with acids liberates very toxic gas.
Conditions to avoid	Incompatible materials
Incompatible materials	Acids
Hazardous decomposition product(s)	Hydrogen sulfide gas

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Skin Contact, Eye Contact

Acute toxicity	Oral: LD50 - Not determined Dermal: LD50 - Not determined
Irritation/Corrosivity	Causes skin irritation. Causes serious eye damage.
Sensitization	No information available
Repeated dose toxicity	No information available
Carcinogenicity	No data. It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity	No information available
Toxicity for reproduction	No information available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Short term	LC50 (96 hour) = 33 mg/L (<i>Oncorhynchus mykiss</i> ; rainbow trout) LC50 (96 hour) = 132 mg/L (<i>Pimephales promelas</i> ; fathead minnow) LC50 (48 hour) = 35 mg/L (<i>Lepomis macrochirus</i> ; bluegill) LC50 (48 hour) = 55 mg/L (<i>Leucisous idus</i> ; ide freshwater fish) LC50 (96 hour) = 149 mg/L (<i>Daphnia mangna</i> ; water flea)
Long Term	Not available
Persistence and degradability	Not available
Bioaccumulative potential	The product has low potential for bioaccumulation.
Mobility in soil	Not available
Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
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SECTION 14: TRANSPORT INFORMATION

	<u>Land transport</u> <u>(U.S. DOT)</u>	<u>Sea transport</u> <u>(IMDG)</u>	<u>Air transport</u> <u>(ICAO/IATA)</u>
UN number			
Proper Shipping Name	Not classified as dangerous for transport.		
Transport hazard class(es)			
Packing group			
Hazard label(s)			
Environmental hazards			
Special precautions for user			

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not established.

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	----	----	----

SARA 311/312 - Hazard Categories:

Fire Sudden Release Reactivity Immediate (acute) Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	----	----

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
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None	----	----
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SECTION 16: OTHER INFORMATION

HMIS RATINGS: Health=1, Flammability=0, Reactivity=0
HMIS HAZARD INDEX: 0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=SERIOUS, 4=SEVERE

The following sections contain revisions or new statements: 2 (non-hazmat)

Date of revision: March 4, 2016

Additional Information: None

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