Safety Data Sheet

EutroSORB® WC

EutroSORB is a registered trademark of SePRO Corporation

SECTION 1. IDENTIFICATION

Product Name:	**EutroSORB® WC**
Product Use:	Aqueous phosphorous reduction media
Supplier Identification:	SePRO Corporation 11550 North Meridian Street, Suite 600 Carmel, IN 46032 www.sepro.com
Telephone:	317-580-8282 / Toll Free 1-800-419-7779 Fax 317-580-8290 Monday - Friday, 8 am to 5 pm EST
Emergency Telephone:	**INFOTRAC 24-hour service 1-800-535-5053**

SECTION 2. HAZARD IDENTIFICATION

GHS Classification:	
Serious Eye Damage/Irritation	Category 1
Skin Corrosion/Irritation	Category 1C
Skin Sensitization	Category 1
Aquatic Acute Toxicity	Category 3

Pictogram:

Signal Word: **Danger**

Hazard Statements	H314: Causes severe skin burns and eye damage H317: May cause an allergic skin reaction H331: Toxic if inhaled H402: Harmful to aquatic life
Precautionary Statements	P101: If medical advice is needed, have product container or label at hand P260: Do not breathe dust/fume/gas/mist/vapors/spray P264: Wash hands thoroughly after handling. P265: Do not touch eyes P272: Contaminated work clothing should not be allowed out of the workplace P280: Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331: IF SWALLOWED: Rinse mouth. DO NOT induce vomiting P302+P361+P354: IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314: Get medical advice/attention if you feel unwell. P333+P317: If skin irritation or rash occurs: Get medical help P362+P364: Take off contaminated clothing and wash it before reuse P403+P233: Store in a well-ventilated place. Keep container tightly closed P405: Store locked up P501: Place contaminated materials in disposal containers and dispose of in a manner consistent with applicable regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Percent (% weight)
Water	7732-18-5	30 - 70%
Phosphorus Binding Compound 1*	Proprietary, Trade Secret	20 - 40%
Phosphorus Binding Compound 2*	Proprietary, Trade Secret	8 - 30%
Proprietary Ingredient*	Proprietary, Trade Secret	< 1%
Proprietary Ingredient*	Proprietary, Trade Secret	< 1%
Hydrochloric acid	7647-01-0	< 1%

*Ingredient names withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

Eye: For direct eye contact, immediately hold eyelids apart and flush the affected eye(s) continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from the eye(s) and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised by the Poison Center/doctor, or for at least 15 minutes. Seek immediate medical attention.

Skin: For skin or hair contact, immediately flush affected area(s) with large amounts of water, using safety shower if available. Quickly remove all contaminated shoes, clothing, and restrictive jewelry. If skin surface is damaged, apply a clean dressing, and seek immediate medical attention. If skin surface is not damaged, cleanse the affected area(s) thoroughly by washing with mild soap and water. Continue flushing until advised by the Poison Center/doctor, or for at least 15 minutes. Seek immediate medical attention.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

Ingestion: No specific first aid measures are required. If swallowed do NOT induce vomiting. As a precaution, get medical advice.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point:	Not applicable
Flammable Limits:	Not applicable
Suitable extinguishing media:	If this material is involved in a fire, use water fog, foam, dry chemical or carbon dioxide to extinguish flames.
Unusual fire and explosion data/ Specific hazards:	None known.
Special protective actions for firefighters:	None known. This material will not burn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Prevent contact with skin or eyes. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions:	Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater.
Containing environmental effects:	Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.
Measures when handling spilled substance:	Clean up spill as soon as possible, observing precautions in **Section 8.** Use appropriate techniques such as applying non- combustible absorbent materials or pumping.
Reporting:	Report spills to local authorities and/or the U.S. Guard's National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:	Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water other than those being treated.
Conditions for safe storage:	Store in a closed container. Store in a cool, well-ventilated area.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Note: This material is a liquid that is not expected to form dust or volatiles

Appropriate engineering controls **Work/Hygienic practices:**	Consider the potential hazards of this material, applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels

	of this material, the personal protective equipment listed below is recommended.
Ventilation:	Use in a well-ventilated area.
Other equipment:	The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.
Environmental protection:	Take measures to prevent material from being released to soil, water, or air. Where feasible and appropriate, remove contaminated soil if released to ground. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Individual protection measures - Personal Protective Equipment (PPE)

Eye/Face Protection:	The use of a face shield and/or chemical goggles to safeguard against potential eye contact, irritation, or injury is recommended.
Hands/Skin Protection:	The use of gloves impermeable to the specific material handled is advised to prevent skin contact, possible irritation, absorption, and skin damage (i.e., Nitrile gloves) – see glove manufacturer literature for permeability information. Depending on use conditions, apron, arm covers, or other impervious clothing may be necessary
Respiratory Protection:	None required where adequate ventilation conditions exist.
Thermal Hazards:	None known.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Note: The data below are typical values and do not constitute a specification.

Physical state: Liquid	Vapor density (Air = 1): Not applicable
Color: Colorless to Amber	Specific gravity (Water = 1): 1.28-1.63 solution @ 20°C
Odor/Odor threshold: Mild	Density: 1.26 – 1.63 g/cm^3
pH: 3.0-4.0	Partition Coefficient (n-octanol/water): Not applicable
Freezing point: -40°C (-40°F)	Water solubility: High
Boiling point/range: >100°C (>212°F)	Autoignition Temperature: Not applicable
Flash point: Not applicable	Decomposition Temperature: Not applicable
Evaporation rate: Not available	Viscosity: Not applicable
Flammability: Non-flammable	Oxidizing properties: Not applicable
Upper/lower flammability Limits: Non-flammable	Molecular Weight: Proprietary
Vapor pressure: Not applicable	Bulk density: Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity:	This material is considered stable under normal storage and handling.
Chemical stability:	This material is considered stable under normal storage and handling conditions.
Possibility of hazardous reactions:	Product testing indicates that the mixture does not meet classification criteria for corrosion to metals. However, some ingredients may be corrosive to metals in the purified form. Caution should be taken when storing in metal containers for extended periods of time.
Incompatibility:	Incompatible with oxidizing reagents, can generate hazardous chlorine gas.
Hazardous decomposition products:	See above

SECTION 11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Eye and skin contact
Signs and symptoms of overexposure:	Eye and skin irritation

Acute Effects

Oral toxicity:	Oral LD_{50} (rat) >5,000 mg/kg
Inhalation toxicity:	Not likely route of exposure. No information found.
Dermal toxicity:	Not expected to be acutely toxic based on available data.
Skin irritation:	A primary skin irritation test was conducted with rabbits to determine the potential for EutroSORB WC to produce irritation after a single topical application. Under the conditions of this study, EutroSORB WC is classified as corrosive to the skin.
Serious eye damage/irritation:	Causes serious eye irritation
Skin sensitization:	May cause an allergic skin reaction
Respiratory sensitization:	No data available

Other Health Effects

Specific target organ toxicity (repeated exposure):	Chronic oral exposure to the ingredients in this product may cause toxic effects to the liver and spleen based on experimental animal data.
Mutagenicity:	The ingredients in this product were negative in the Ames bacterial mutagenic test using bacterial strains TA135, TA1537, TA98, TA100, TA102, and W P2uvrA.
Carcinogenicity:	Not assessed by IARC, NTP or USEPA for carcinogenicity
Medical conditions aggravated by exposure:	Preexisting diseases of the liver or spleen.
Additional Information:	None - Proprietary information.

References:

ECHA Registered Substances Database. May 2022.
Product Safety Labs. Primary Skin Irritation in Rabbits. April 20, 2022.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity:		
Toxicity to fish	Fathead Minnow	96-hour LC_{50}: 191 mg/L 96-hour NOEC: 125 mg/L
	Rainbow Trout	96–hour LC_{50}: 18.7 mg/L 96-hour NOEC: 5.0 mg/L
Toxicity to daphnia	Ceriodaphnia dubia	48-hour LC_{50}: 16.4 mg/L 48-hour NOEC: 7.8 mg/L
Persistence and biodegradability:	This proprietary product is not expected to be readily biodegradable	
Bioaccumulation potential:	No data available	
Mobility in soil:	No data available	
Other ecological data:	No data available	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods:	Use material for its intended purpose or recycle if possible. This material if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste federal law requires disposal at a licensed hazardous waste disposal facility. Chemical additions, processing or otherwise altering this material may make waste management information presented in the SDS incomplete.
Container:	Place contaminated materials in disposal containers and dispose of in a manner consistent with applicable regulations.

SECTION 14. TRANSPORT INFORMATION

Agency:	**Shipping Description:**
DOT	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid), 8, PGIII
IMO/IMDG	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid), 8, PGIII
ICAO/IATA	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid), 8, PGIII

SECTION 15. REGULATORY INFORMATION

Chemical safety assessment: None available.

United States Federal Regulations:

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): This material is not listed under CERCLA and has no reportable quantity.

Clean Water Act (CWA): Not listed

Clean Air Act (CAA): Not listed

Superfund Amendments and Reauthorization Act (SARA) Title III Information

SARA 302 Components: No chemicals listed are subject to reporting requirements of S.302

SARA 313 Components: No chemicals listed exceed threshold reporting levels

SARA 311 / 312 Hazards: Acute Health Hazard, Chronic Health Hazard

Toxic Substances Control Act: This material is listed on the TSCA inventory

State and Other:

California: This material is not listed under Proposition 65 (CA Health & Safety Code Section 25249.5)

Massachusetts: Not listed

New Jersey: Not listed

IARC: Not listed

NTP: Not listed

REGULATORY LISTS SEARCHED

01-1=IARC Group 1
01-2A=IARC Group 2A
01-2B=IARC Group 2B
02=NTP Carcinogen
03=EPCRA 313
04=CA Proposition 65
05=MA RTK
06=NJ RTK

SECTION 16. OTHER INFORMATION

National Fire Protection Association (NFPA) Ratings: This information is provided solely for the use of individuals trained in the NFPA system.

Health: 2
Flammability: 0
Reactivity: 0

Acronyms and abbreviations that may have been used in this document:

ACGIH: American Conference of Government Industrial Hygienists	LLV: Level Limit Values
ADR: Accord Dangereux Routier	LOEC: Lowest Observed Effect Concentration
ADNR: Regulation for the carriage of dangerous substances on the Rhine	LV: Limit Values
ÁK: Average Concentration	MAC: Maximum Acceptable/Admissible Concentration

CAS: Chemical Abstract Service Number	MAK: Maximale Arbeitsplatzkonzentration
CAA: Clean Air Act	NOEC: No Observed Effect Concentration
CMP: Concentracíon Máxima Permisible	NRC: Nuclear Regulatory Commission
CWA: Clean Water Act	NTP: National Toxicology Program (US)
EC: European Community	OEL: Occupational Exposure Limit
EINECS: European Inventory of Existing Chemical Substances	ONU: United Nations number
ELINCS: European List of Notified Chemical Substances	OSHA: Occupational Safety and Health Administration
EPCRA: Emergency Planning and Community Right To Know Act	PPE: Personal Protective Equipment
GHS: Global Harmonized System	RID: International rule for transport of dangerous substances by Rail
IARC: International Agency for Research on Cancer	RTK: Right to Know
IATA: International Air Transport Association	SARA: Superfund Amendment and Reauthorization Act
GHS: Global Harmonized System	SDS: Safety Data Sheet
IARC: International Agency for Research on Cancer	TGG-8hr: Tijd Gewogen Gemiddelde-8 hour
IATA: International Air Transport Association	TWA: Time Weighted Average
IC25: Inhibiting Concentration 25%	TWA-8hr: Time Weighted Average-8 hour
ICAO: International Civil Aviation Organization (UN)	USEPA: United States Environmental Protection Agency
IMO: International Maritime Organization	VLA-ED: Valor límite ambiental de exposición diaria
IMDG: International Maritime Dangerous Goods	VLE: Valeur Limite d'Exposition
IPRV: Ilgalaikio poveikio ribine verte	VLEP: Valeurs Limites d'Exposition Professionnelle
LC50: Lethal Concentration 50%	VME: Valeur Limite de Moyenne d'Exposition Professionnelle
LD50: Lethal Dose 50%	WGK: Wassergefährdungsklasse (Water Hazard Classes)

Version 2

Creation Date: 01/21/2022

Revision Date: 05/02/2023

Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein the above-named supplier cannot guarantee that these are the only hazards that exist.