

Safety Data Sheet

ReSTORE® WC



SECTION 1 IDENTIFICATION

Product Name: ReSTORE® WC

Product Use: Aqueous phosphorous reduction media

Supplier Identification: SePRO Corporation
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EMERGENCY telephone number (With hours of operation): INFOTRAC 24-hour service 1-800-535-5053

*The following recommendations for exposure controls and personal protection are intended for the manufacture, formulation, and packaging of this product. For application and/or use, consult the product label. The label directions supersede the text of this SDS for application and/or use.

SECTION 2 HAZARD IDENTIFICATION

GHS Classification:

Acute Oral Toxicity – Category 5
Eye Irritation – Category 2B
Skin Irritation – Category 3
Target Organ Toxicity (Repeated) – Category 2

*Note: This material is not expected to be harmful to fish or aquatic invertebrates.

GHS label elements

Hazard Pictogram:



Signal Word: Warning

Hazard statements:

H303 May be harmful if swallowed.
H315 Causes skin irritations.
H319 Causes serious eye irritation.
H373 May cause damage to organs (liver and spleen) through prolonged repeated exposure.

Precautionary Statements:

P264: Wash hands thoroughly after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection
P302+P352: IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes, remove contact lenses, if present and easy to do. Continue rinsing

P312: Call a POISON CENTER/doctor/physician if you feel unwell
P332+P313: If skin irritation occurs: Get medical advice/attention
P337+P313: If eye irritation persists: Get medical advice/attention
P362 + P364: Take off contaminated clothing and wash before reuse
P402/P404: Store in a dry place. Store in a closed container
P501: Place contaminated materials in disposal containers and dispose of in a manner consistent with applicable regulations

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical nature*: This product is a blend of aqueous phosphate binding materials.

*Ingredient names withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

- Eye:** Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek immediate medical attention if irritation persists.
- Skin:** Remove contaminated clothing and wash affected area(s) with soap and water. If irritation of the skin persists, 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.

Appearance 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	Partition Coefficient: n-octanol/water	Not applicable
pH:	3.0-4.0	Water solubility:	High
Freezing point:	-40°C (-40°F)	Autoignition Temperature:	Not applicable
Boiling point/range:	Not available	Decomposition Temperature:	Not applicable
Flash point:	Not applicable	Viscosity:	Not applicable
Evaporation rate:	Not available	Other Properties	
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 conditions.

Chemical stability: This material is considered stable under normal storage and handling conditions.

Possibility of hazardous reactions: See below

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

Acute oral toxicity: Slightly toxic by this route (Category 5) – see below

Acute inhalation toxicity: Not likely route of exposure - No information found

Acute dermal toxicity: No information found

Skin irritation: Can cause skin irritation

Eye irritation: Can cause eye irritation

Skin sensitization: No information found

Other Health Effects

Specific target organ toxicity (repeated exposure): Chronic oral exposure to rare earth chlorides may cause toxic effects to the liver and spleen based on experimental animal data

Mutagenicity: The ingredients within this product were negative in the Ames bacterial mutagenic test using bacterial strains TA135, TA1537, TA98, TA100, TA102, and WP2uvrA.

Carcinogenicity: Not assessed by IARC, NTP or USEPA for carcinogenicity

Medical conditions aggravated

by exposure: Preexisting diseases of the liver or spleen
Acute toxicity values: Oral LD50 (Rat) = 2800 mg/kg
Additional Information: None - Proprietary information.

SECTION 12 ECOLOGICAL INFORMATION
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Ecotoxicity:

Toxicity to fish Fathead Minnow
 96-hour LC50: 191 mg/L
 NOEC (96 hr): 125 mg/L

Rainbow Trout
 96-hour LC50: 18.7 mg/L
 NOEC (96 hr): 5.0 mg/L

Toxicity to daphnia Ceriodaphnia dubia
 48-hour LC50: 16.4 mg/L
 NOEC (48 hr): 7.8 mg/L

Persistence and biodegradability: This proprietary product is not expected to be readily biodegradable.
Bioaccumulation: 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	NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER DOT 49 CFR
IMO/IMDG	NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE
ICAO/IATA	NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

UN/NA number: Not classified
Proper shipping name: Not classified
Hazard class: Not classified
Packing group: Not classified
Environmental hazards: Not classified
Transport in bulk: Not classified
Special precautions for user: Not classified

SECTION 15 REGULATORY INFORMATION
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Chemical safety report: 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

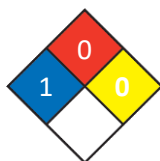
REGULATORY LISTS SEARCHED:

01-1=IARC Group 1	03=EPCRA 313
01-2A=IARC Group 2A	04=CA Proposition 65
01-2B=IARC Group 2B	05=MA RTK
02=NTP Carcinogen	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: 1
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: Concentración Máxima Permissible	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 1

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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 we cannot guarantee that these are the only hazards that exist.