

FREMONT

WATER SOLUTIONS

8/19/2024: File reviewed, more current MSDS/SDS not available. CAS

FREMONT 9577WR Ultra Series Cooling Water Treatment

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/01/2015 Supersedes: 11/14/2013

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : FREMONT 9577WR Ultra Series Cooling Water Treatment
Product form : Mixture

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

Use of the substance/mixture : Cooling Water Treatment

1.3. Details of the supplier of the safety data sheet

FREMONT INDUSTRIES, INC.
4400 Valley Industrial Blvd. N.
P.O. Box 67
Shakopee, MN 55379-0067

1.4. Emergency telephone number

Emergency number : (952) 445-4121
CHEMTREC: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Skin Irrit. 2 H315
Eye Dam. 1 H318
Skin Sens. 1 H317

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : **Danger**

Hazard statements (GHS-US) : H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage

Precautionary statements (GHS-US) : P261 - Avoid breathing dust or mist
P264 - Wash the skin thoroughly after handling
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective gloves, protective clothing, a face shield, and eye protection
P302 + P352 - If on the skin, wash with plenty of water
P305 + P351 + P338 - If in the eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P310 - Immediately call a a POISON CENTER
P321 - Specific treatment (see first aid instructions on this label)
P333 + P313 - If skin irritation or a rash occurs, get medical advice/attention
P362 - Take off contaminated clothing and wash before re-use
P501 - Dispose of contents/containers to licensed waste handling facility

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%
Phosphonic acid, reaction products with maleic anhydride, sodium salts	(CAS No) 180513-31-9	5-10
1-Hydroxyethane-1,1-diphosphonic acid	(CAS No) 2809-21-4	1-5
Maleic acid	(CAS No) 110-16-7	0.1-1

SECTION 4: First aid measures

4.1. Description of first aid measures

- First aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First aid measures after inhalation : IF INHALED: Move to fresh air and keep at rest in a position comfortable for breathing.
- First aid measures after skin contact : IF ON SKIN: Immediately rinse with plenty of water (for at least 15 minutes). Get medical advice/attention.
- First aid measures after eye contact : IF IN EYES: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Get medical advice/attention.
- First aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction.
- Symptoms/injuries after inhalation : May cause headaches, nausea, and irritation of the respiratory tract.
- Symptoms/injuries after skin contact : Causes skin irritation. Prolonged or repeated contact may result in irritative or allergic dermatitis.
- Symptoms/injuries after eye contact : Causes serious eye damage.
- Symptoms/injuries after ingestion : May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract.
- Chronic symptoms : No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, carbon dioxide, foam, and dry powder.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Product is not flammable.
- Explosion hazard : Product is not explosive.
- Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of firefighting water in the environment.
- Protection during firefighting : Do not enter fire areas without the proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

General measures : Evacuate the area. Keep upwind. Ventilate the area. Spill should be handled by trained cleanup crews properly equipped with respiratory equipment and full chemical-protective gear (see Section 8).

6.1.1. For non-emergency personnel

- Protective equipment : Wear protective equipment, as described in Section 8.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves, and eye or face protection. An approved supplied-air respirator in the case of an emergency.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify the authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleanup

For containment : Sweep or shovel spills into appropriate containers for disposal. Avoid dust formation.

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Methods for cleanup : Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections

No additional information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Provide good ventilation in the process area to prevent the formation of vapor. Do not breathe vapors or mists. Keep away from sources of ignition. No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well-ventilated place away from heat sources. Keep containers closed when not in use.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Phosphonic acid, reaction products with maleic anhydride, sodium salts (180513-31-9)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established

1-Hydroxyethane-1,1-diphosphonic acid (2809-21-4)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established

Maleic acid (110-16-7)	
Remark (ACGIH)	OELs not established
Remark (US OSHA)	OELs not established

8.2. Exposure controls

Personal protective equipment : Safety glasses and gloves.



Hand protection : Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are natural rubber ("latex"), Neoprene, nitrile/butadiene rubber, polyethylene, ethyl vinyl alcohol laminate, PVC, or vinyl.

Eye protection : Eye protection, including both chemical splash goggles and a face shield, must be worn when the possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where excessive vapor, mist, or dust may result, use NIOSH-approved respiratory protection equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystal

Color : Auburn

Odor : No data available

Odor Threshold : No data available

pH : 4–5

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : No data available

Freezing point : No data available

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Boiling point	: 100 °C (212°F)
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: >50g/100g water (20°C)
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see Section 7).

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids.

10.6. Hazardous decomposition products

Thermal decomposition generates carbon oxides (CO, CO₂), phosphorus oxides, nitrogen oxides, and ammonia.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

1-Hydroxyethane-1,1-diphosphonic acid (2809-21-4)	
LD50 oral rat	2400 mg/kg
LD50 dermal rabbit	> 7940 mg/kg

Maleic acid (110-16-7)	
LD50 oral rat	708 mg/kg (Source: IUCLID)
LD50 dermal rabbit	1560 mg/kg (Source: NLM_CIP)
LC50 inhalation rat (mg/l)	> 720 mg/m ³ 1 h; (Source: NLM_CIP)

Skin corrosion/irritation	: Causes skin irritation pH: 4–5
Serious eye damage/irritation	: Causes serious eye damage pH: 4–5
Respiratory or skin sensitization	: May cause an allergic skin reaction
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified

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Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause headache, nausea, and irritation of the respiratory tract
Symptoms/injuries after skin contact	: Causes skin irritation. Prolonged or repeated contact may result in irritative or allergic dermatitis
Symptoms/injuries after eye contact	: Causes serious eye damage
Symptoms/injuries after ingestion	: May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract
Chronic symptoms	: No data available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long-lasting effects

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Do not discharge to public wastewater systems without a permit from pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Additional information

Other information : No supplementary information available

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

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All chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory

SARA Section 311/312 Hazard Classes : Immediate (acute) health hazard

Phosphonic acid, reaction products with maleic anhydride, sodium salts (180513-31-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

1-Hydroxyethane-1,1-diphosphonic acid (2809-21-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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Maleic acid (110-16-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on SARA Section 313 (Specific toxic chemical listings)

RQ (Reportable quantity, section 304 of EPA's List of Lists) :	5000 lb Final
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15.2. International regulations

CANADA

Phosphonic acid, reaction products with maleic anhydride, sodium salts (180513-31-9)

Listed on the Canadian DSL (Domestic Substances List) inventory

1-Hydroxyethane-1,1-diphosphonic acid (2809-21-4)

Listed on the Canadian DSL (Domestic Substances List) inventory

Maleic acid (110-16-7)

Listed on the Canadian DSL (Domestic Substances List) inventory

No additional information available

15.2.2. National regulations

Phosphonic acid, reaction products with maleic anhydride, sodium salts (180513-31-9)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory
Listed on New Zealand - Inventory of Chemicals (NZIoC)

1-Hydroxyethane-1,1-diphosphonic acid (2809-21-4)

Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on the AICS (the Australian Inventory of Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory
Listed on the Korean ECL (Existing Chemical List) inventory.

Maleic acid (110-16-7)

Listed on the AICS (the Australian Inventory of Chemical Substances)
Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory
Listed on KECI (Chemical Inventory of Korea)

15.3. US State regulations

1,2,3-Benzotriazole (95-14-7)

RTK - U.S. - Massachusetts - Right To Know List

Maleic acid (110-16-7)

RTK - U.S. - Massachusetts - Right To Know List
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

Trisodium phosphate (7601-54-9)

RTK - U.S. - Massachusetts - Right To Know List
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

Phosphonic acid [H(P=O)(OH)2] (13598-36-2)

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

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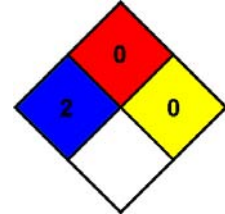
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SECTION 16: Other information

Indication of changes : Revision 1.0: New SDS Created.
Revision date : 05/27/2014
Other information : Author: BAS.

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard : 0 - Materials that will not burn.
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and not reactive with water.



HMIS III Rating

Health : 2
Flammability : 0
Physical : 0
Personal Protection :

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