

Material Safety Data Sheet

WHMIS (Pictograms)

WHMIS (Classification)

HCS



WHMIS Class E: Corrosive liquid. WHMIS CLASS D-2: Material causing other toxic effects.

Class: Corrosive material

Section 1. Chemical Product and Company Identification

Product Name/ Trade name	RETREAT	Code	314
Synonym	Foaming Shower/Restroom/Cleaner	CAS #	Not applicable.
Chemical Family	Not Applicable	Validation Date	2/8/2001
Chemical Formula	Not applicable.	Print Date	2/12/2001
Manufactured for	IFC Supply PO Box 266 Elkhart, IN 46515 (219) 296-7791	In Case of Emergency	(219) 296-7791
TSCA	TSCA Inventory: All components listed or are exempt from listing.		
DSL	DSL : All components listed unless noted elsewhere on this MSDS		



Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
1) Water	7732-18-5	>53	Not available.	Not available.
2) Phosphoric Acid	7664-38-2	<20	TWA: 1 (mg/m ³) TWA: 1 (mg/m ³) from OSHA (PEL) [United States] STEL: 3 (mg/m ³)	Not available.
3) Citric Acid	77-92-9	<11	Not available.	Not available.
4) Nonionic Surfactant	61788-90-7	<11	Not available.	ORAL (LD ₅₀): Acute: 4610 mg/kg [Rat].
5) Quaternary Ammonium Chloride	68424-95-3	1.56	Not available.	Not available.
6) Nonionic Surfactant	9016-45-9	<1.44	Not available.	Not available.
7) Perfume Oil	N/A	<1	Not available.	Not available.
8) Dye	N/A	<1	Not available.	Not available.

Section 3. Hazards Identification

Potential Acute Health Effects	Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death.
Potential Chronic Health Effects	Over-exposure by inhalation may cause respiratory irritation. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First Aid Measures

Eye Contact	Causes severe eye and skin irritation. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Skin Contact	Corrosive to eyes and skin. Wash gently and thoroughly the contaminated skin with running water and non abrasive soap for 15 minutes. Seek medical attention.
Inhalation	Evacuate the victim to a safe area as soon as possible. Seek medical attention.
Ingestion	DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.

Section 5. Fire Fighting Measures

Products of Combustion	Not available.
Fire Fighting Media and Instructions	Non-flammable substance.
Special Remarks on Fire Hazards	N/A
Special Remarks on Explosion Hazards	N/A


Section 6. Accidental Release Measures

Small Spill and Leak	Absorb with an inert material and place in an appropriate waste disposal container.
Large Spill and Leak	Prevent entry into sewers, basements or confined areas. Wear Protective Clothing. Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 7. Handling and Storage

Precautions	Avoid contact with skin and eyes. DO NOT ingest. Use only in well ventilated areas.
Incompatibility	acids oxidizing agents
Storage	Keep out of the reach of children. Not for use or storage in or around the home.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Good general ventilation should be sufficient to control airborne levels.
Personal Protection	
<i>Eyes</i>	Splash goggles.
<i>Body</i>	Lab coat.
<i>Respiratory</i>	Wear appropriate respirator when ventilation is inadequate.
<i>Hands</i>	Gloves (impervious).
Protective Clothing (Pictograms)	
Exposure Limits	Phosphoric Acid TWA: 1 (mg/m ³) TWA: 1 (mg/m ³) from OSHA (PEL) STEL: 3 (mg/m ³) Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Pleasant.
Molecular Weight	Not applicable.	Taste	Not available.
pH	1.5 to 2 [Acidic.]	Color	Green.
Boiling/Condensation Point	88°C (190.4°F)		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	1.06 (Water = 1)		
Vapor Pressure	<20 mm of Hg (@ 20°C)		
Vapor Density	>1 (Air = 1)		
Volatility	Not available.		
VOC	Not available.		
Evaporation Rate	<1 compared to Water		
Odor Threshold	Not available.		
LogK_{ow}	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water.		
Solubility	Soluble		
The Product is:	May be combustible at high temperature.		
Auto-ignition Temperature	Not available.		
Flash Points	None to Boiling (TCC)		
Flammable Limits	Not available.		
Fire Hazards in Presence of Various Substances	No specific information is available in our database regarding the flammability of this product in presence of various materials.		
Explosion Hazards in Presence of Various Substances	Not applicable		

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substances	acids oxidizing agents
Hazardous Decomposition Products	Not available.

Section 11. Toxicological Information

Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 4610 mg/kg [Rat]. (Nonionic Surfactant).
Acute Effects on Humans	<p><i>Eyes</i> Severe eye irritant. Liquid and mist may burn or injure the eyes.</p> <p><i>Skin</i> Severe skin irritant. Prolonged or repeated contact can cause chemical burns or dermatitis.</p> <p><i>Inhalation</i> May be irritating to mucous membranes of the nose, throat, and lungs.</p> <p><i>Ingestion</i> May be irritating to the mouth, throat, and gastrointestinal system. Nausea, vomiting, and diarrhea expected with large doses. May be fatal if swallowed.</p>
Chronic Effects on Humans	Over-exposure by inhalation may cause respiratory irritation. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation.
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	No additional remark.



Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on the Products of Biodegradation	No additional remark.

Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream	Not available.

Section 14. Transport Information

DOT (U.S.A) (Pictograms)		
TDG Classification	8	
PIN UN, Proper Shipping Name, PG	Shipping name: Corrosive liquids n.o.s. UNNA: 1760 PG: III	
Maritime Transportation	Not available.	

Special Provisions for Transport

Not available.

Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification)

WHMIS Class E: Corrosive liquid. WHMIS CLASS D-2: Material causing other toxic effects.



Regulatory Lists

All components Found on DSL

Other Regulations

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications

HCS (U.S.A.)

Class: Corrosive material

USA Regulatory Lists

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Phosphoric Acid
SARA 313 toxic chemical notification and release reporting: Phosphoric Acid

DSD (EEC)

R35- Causes severe burns.

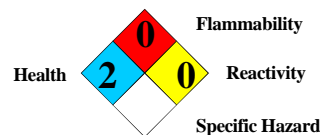
International Regulations Lists

No products were found.

Hazardous Material Information System (U.S.A.)

Health	2
Flammability	0
Reactivity	0
Personal Protection	B

National Fire Protection Association (U.S.A.)



Section 16. Other Information

Validated by CRushton on 2/8/2001.

Verified by CRushton.

Printed 2/12/2001.

Information Contact

IFC Supply
PO Box 266
Elkhart, IN 46515

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.

Validated on 2/8/2001.

RETREAT