

Material Safety Data Sheet

May be used to comply with
 OSHA's Hazard Communication Standard
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements

U.S. Department of Labor

Occupation Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

IDENTITY	<i>Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.</i>		
MADD (110105)			

Section I

Manufactured For:	Emergency Telephone Number 1-800-255-3924 (Chem-Tel)		
Beaver Research Company			
Address (Number, Street, City, State, and ZIP Code)	Telephone Number For Information		
3700 E. Kilgore Road, Portage, MI 49002	269-382-0133		
NPCA RATINGS:	Health: 2	Date Prepared	
	Flammability: 0	07/22/99	
	Reactivity: 0	Signature of Preparer (optional)	
	Maximum Personal Protection: B		

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	CAS No.	PEL	TWA-TLV	STEL-TLV	% (optional)
Water	7732-18-5				to 100
Phosphoric Acid	7664-38-2	1mg/M ³	1mg/M ³	3mg/M ³	30to35
Glucorlic Acid	526-95-4				0 to 5
Anionic Surfactant	27176-87-0				0 to 5
Nonionic Surfactant	127087-87-0				0 to 5
Nonionic Surfactant	61788-90-7				0 to 5
Dye	N/A				0 to 5

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

Phosphoric Acid	7664-38-2	30.0
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Section III - Physical/Chemical Characteristics

Boiling Point (°F)	218°F initial	Specific Gravity (H ₂ O = 1)	1.18
Vapor Pressure (mm Hg)	<20mmHg@68°F	% Volatile	60+
Vapor Density (AIR = 1)	>1	Evaporation Rate (Water = 1)	<1
Solubility in Water	pH 1.5 - 2.0	Total VOC: 1%	

Appearance and Odor

Thin yellow liquid with no odor.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
N/A	N/A	N/A	N/A
Extinguishing Media			
N/A			
Special Fire Fighting Procedures			
N/A			
Unusual Fire and Explosion Hazards			
N/A			

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid	N/A
	Stable	X		

Incompatibility (Materials to Avoid)

Strong alkalies, oxidizers, reactive metals.

Hazardous Decomposition or Byproducts

Phosphorous oxide vapors in a fire.

Hazardous	May Occur		Conditions to Avoid	N/A
	Will Not Occur	X		

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

Skin: Severe skin irritant. Prolonged or repeated contact can cause chemical burns or deratitis.**Eyes:** Severe eye irritant. Liquid and mists may burn or injure the eyes.**Inhalation:** May be irritating to mucous membranes of the nose, throat and lungs.**Ingestion:** May be irritating or corrosive to the mouth and throat. Can cause nausea and vomiting.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	N/A	N/A	N/A

Signs and Symptoms of Exposure

See above "Health Hazards".

Medical Conditions Generally Aggravated by Exposure

N/A

Emergency and First Aid Procedure

Skin: Remove contaminated clothing. Flush exposed area with large quantities of water. Seek medical attention if irritation persists. **Eyes:** Flush eyes with large quantities of water, holding eyelids open. Seek medical attention if irritation persists. **Inhalation:** Get to fresh air. Seek medical attention if symptoms persist. **Ingestion:** Do not induce vomiting. Give large quantities of water or milk. Seek medical attention immediately.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Mop up or otherwise absorb and hold for disposal.

Waste Disposal Method

Any method in accordance with applicable laws.

Precautions to be Taken in Handling and Storage

Keep out of reach of children. For use by trained personnel only. Keep container closed during storage. For institutional and industrial use only.

Other Precautions

N/A

Section VIII - Control Measures

Respiratory Protection (Specify Type)

Use iwth adequate ventilation.

Ventilation	Local Exhaust	Yes	Special	N/A
	Mechanical(General)	N/A	Other	N/A

Protective Gloves

Acid proof.

Eye Protection

Safety glasses.

Other Protective Clothing or Equipment

N/A

Work/Hygienic Practices

N/A