SAFETY DATA SHEET

Issue Date **12-**2-2014 **Revision Date** Address updated 11/2023 **Version** 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name **Clion X**

Other Means of Identification

Product Code **1295**

Recommended Use of the Chemical and Restrictions on Use

Recommended Use

Acid Truck Cleaner

Details of the Supplier of the Safety Data Sheet

Supplier Address

CORRELATED PRODUCTS
A division of Waverly Industries, LLC.
145 W Shore Dr. Culver, IN 46511

Emergency Telephone Number

Company Phone Number	**1-800-428-3266**
Emergency Telephone	1-800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Skin Corrosion/Irritation: Category 1
Eye Damage/Irritation: Category 1
Corrosive to Metals: Category 1

Signal Word
DANGER

Symbols

Emergency Overview:
Physical State: Liquid
Color: Pink
Odor: Characteristic

OSHA/HCS status: **This material is considered hazardous by the OSHA Hazard Communication Standard(29 CFR 1910.1200).**

Hazard Statements

CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
MAY BE CORROSIVE TO METALS.

Precautionary Statements-Prevention

Wash face, hands and any exposed skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Do not breathe dusts or mists.
Keep only in original container.

Precautionary Statements – Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).
Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call a poison center or doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a poison center or doctor if you feel unwell.
Absorb spillage to prevent material damage.

Precautionary Statements – Storage

Store locked up.
Store in corrosive resistant container with resistant inner liner.

Precautionary Statements – Disposal

Dispose of contents/container in accordance with local, state and federal regulations..

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	80-85
Phosphoric Acid	7664-38-2	5-10
Sulfamic Acid	5329-14-6	1-5
Ethylene Glycol Monobutyl Ether	111-76-2	1-5
Ammonium Bifluoride	1341-49-7	1-5

The balance of the chemicals in this mixture are either considered nonhazardous or are below the listing limits for hazardous substances. These chemicals are considered trade secrets. The specific identity of these chemicals is available to health professionals.

4. FIRST AID MEASURES

First Aid Measures

Eye Contact — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

Skin Contact — IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower). Wash contaminated clothing before reuse.

Inhalation — IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.

Ingestion IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a poison center or doctor if you feel unwell.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms Direct contact with eyes causes serious damage. Substance causes skin burns. Harmful if swallowed. Keep out of reach of children.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians **Probable mucosal damage may contraindicate the use of gastric lavage**.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
None

Specific Hazards Arising from the Chemical
Dried product is capable of burning. Combustion products are toxic.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required. Isolate area. Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

Methods and Material for Containment and Cleaning Up

Methods for Containment For small spills, absorb on poly-pads or other suitable non-reactive absorbent material. Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Sweep up and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

Incompatible Materials Strong bases, bleach.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACHIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric Acid	**3 mg/m3 STEL** **1 mg/m3 TWA**	**1 mg/m3 TWA**	**3 mg/m3 STEL** **1 mg/m3 TWA**
Sulfamic Acid	**None Known**	**None Known**	**None Known**
Ethylene Glycol Monobutyl Ether **111-76-2**	**20 ppm TWA**	**50 ppm, 24 mg/m3 TWA OSHA Z-1** **240 mg/m3 TWA OSHA P0**	**5 ppm, 24 mg.m3 TWA**
Ammonium Bifluoride	**2.5 mg/m3**	**2.5 mg/m3**	**Data not available**

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or other biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Appropriate Engineering Controls: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and the using the bathroom and at the end of the working periods.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Avoid contact with eyes. Wear safety eyewear.
Skin and Body Protection Wear suitable protective clothing. Use impervious gloves.
Respiratory Protection Not required with expected use. Ensure adequate ventilation, especially in confined areas.
General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Characteristic
Appearance	Liquid	Odor Threshold	Not determined
Color	Pink		

Property	**Values**
pH	2
Melting Point/Freezing Point	Not determined
Boiling Point/Boiling Range	212 Deg F
Flash Point	n/a (tcp)
Evaporation Rate	(H20=1) =1
Flammability (Solid, Gas)	n/a-liquid
Upper Flammability Limits	UEL=n/a
Lower Flammability Limits	LEL=n/a
Vapor Pressure	20@68F
Vapor Density	Not determined
Specific Gravity	1.0
Water Solubility	Soluble in water
Solubility in Other Solvents	Not determined
Partition Coefficient	Not determined
Auto ignition Temperature	Not determined
Decomposition Temperature Kinematic	Not determined
Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties Oxidizing	Not determined
Properties	Not determined

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid
Strong bases and bleach. Keep out of reach of children.

Incompatible Materials
Strong bases/bleach

Hazardous Decomposition Products
Acidic vapors in a fire.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact Causes severe eye damage. **Skin Contact** Causes severe skin burns.

Inhalation Irritating to the mucus membranes of the respiratory tract. Nasal discomfort and coughing.

Ingestion Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water	90,000 mg/kg (rat)	Data not available	Data not available
Phosphoric Acid 7664-38-2	1,530 mg/kg (rat)	2740 mg/kg (rabbit)	213 mg/m3 (rat)
Sulfamic Acid 5329-14-6	3,160 mg/kg (rat)	Data not available	Data not available
Ethylene Glycol Monobutyl Ether 111-76-2	1200 mg/kg (guinea pig)	>2,000 mg/kg	663, ppm 4 h
Ammonium Bifluoride 1341-49-7	130 mg/kg (rat)	Data not available	Data not available

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical Measures of Toxicity

ATEmix-oral: 4,545 mg/kg ATEmix-dermal: mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Material may be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Phosphoric Acid 7664-38-2	Data not available	LC50: 138 mg/L Mosquitofish 96 h	Data not available	Data not available
Sulfamic Acid 5329-14-6	Data not available	LC50(Pimephales promelas (fathead minnow)): 58.8 -84 mg/L. 96 h	Data not available	Data not available
Ethylene Glycol Monobutyl Ether 111-76-2	EC50 (Pseudokirchneriella subcapitata (green algae)): 911 mg/l. Endpoint: Biomass Exposure time: 72h	LC50 (Oncorhynchus mykiss (rainbow trout): 1,474 mg/l. Exposure time: 96h	Data not available	EC50 (Daphnia magna (Water flea)): 1,800 mg/l Exposure time: 48h Test type: static test
Ammonium Bifluoride 1341-49-7	Data not available	Data not available	Data not available	Data not available

Persistence and Degradability

Not determined

Bioaccumulation

Not determined.

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT **UN 1760, CORROSIVE LIQUID, N.O.S.(Phosphoric Acid, Sulfamic Acid), 8, III**

IATA Not available.

IMDG Not available.

TDG Not available.

15. REGULATORY INFORMATION

International Inventories

Not determined

US Federal Regulations

SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS No	Weight-%
Phosphoric Acid	**7664-38-2**	**12.463**
Ethylene Glycol Monobutyl Ether	**111-76-2**	**1.947**

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Phosphoric Acid 7664-38-2		X	X

California Prop 65: This product contains no chemicals known to the State of California to cause cancer and reproductive toxicity.

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	Not determined	Not determined	Not determined	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
	3	0	0	C

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Revision Note

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet