

03/21/92
Manufacturer's Name & Address:
TECHNIC, INCORPORATED
Contact: William A. Wilson
1 Spectacle Street
Cranston, RI 02910

Emergency Telephone Number
(401) 781-6100

Chemtrec Toll Free Number:
(800) 424-9300

Section 01 : General Information

Common Name: ACR 434 pH - pH - CONTROL
Chemical Name: ELECTROPLATING pH - CONTROL
Chemical Family: PROPRIETARY PHOSPHORIC ACID DERIVATE
Chemical Formula: PROPRIETARY
Preparation Date: 07/22/91
Last Revision Date: 02/07/91
Revision Number: 9107A

Section 02 : Hazardous Ingredients

Section 2A: Hazardous Ingredients

Applicable Exposure Limits

L/I Chemical & Common Name	CAS-Reg-No	%age	PEL- OSHA	TLV- ACGIH
1. Proprietary phosphoric acid	N/A	20.0	Unknown	Unknown
2. derivate.				

Section 2B: Carcinogenic Ingredients

Reference Source

L/I Chemical & Common Name	CAS-Reg-No	%age	IARC	OSHA
1. None				

Section 2C: Mutagenic Ingredients

Reference Source

L/I Chemical & Common Name	CAS-Reg-No	%age	IARC	OSHA
1. None				

Section 2D: Teratogenic Ingredients

Reference Source

L/I Chemical & Common Name	CAS-Reg-No	%age	IARC	OSHA
1. None				

Section 03 : Health Hazard Data

Acute Health Effects:

Toxicological studies indicated the following:
Oral LD50 (Rat): 2,400 mg/kg, Slightly toxic
Dermal LD50 (Rabbit): > 7,900 mg/kg, Practically nontoxic
Eye irritation (Rabbit): Corrosive
Skin irritation (Rabbit): Nonirritating

When recommended safety precautions are adhered to, exposure is not expected to produce any significant adverse human health effects.

Chronic Health Effects:

N/A

Routes Of Entry:

Contact with skin and eyes can cause severe irritation. Dust or vapor mist may irritate or burn the mucous membranes. Ingestion or inhalation through careless handling of this material, can cause coughing, and difficulty in breathing.

Medical Conditions Aggravated By Exposure:

N/A

Emergency And First Aid Procedures:

EYES: The object is to flush material out then seek medical attention as soon as possible. Immediately flush eyes with large amounts of water for at least 15 minutes holding lids open to ensure the cleansing of the entire surface. Washing the eyes within seconds of the accident is essential to achieve maximum effectiveness.

SKIN: Immediately wash contaminated areas with large amounts of water. Remove contaminated clothing under the shower so as not to contaminate the skin any more than is necessary.

INGESTION: Never give anything by mouth to an unconscious person. If product is inadvertently swallowed, INDUCE VOMITING. Give large quantities of water. If available, give several glasses of milk. If vomiting occurs spontaneously make very sure to keep airway (nose and throat) clear. Seek medical attention immediately.

Section 04 : Chemical Data

Boiling Point: >212 F
Vapor Pressure: N/A
Vapor Density: N/A
Specific Gravity: N/A pH <2.0
Per Cent Volatile By Volume: N/A
Evaporation Rate Based On: N/A
Evaporation Rate: N/A

Solubility (Specify Solvents):
Completely soluble in water.
Water based solvent system.

Appearance & Odor:
Light yellow solution, with no discernible odor.

Section 05 : Physical Hazard Data

Flash Point: Not combustible
Flammable Limits: Non-flammable
Lel: N/A
Uel: N/A

Flammability Data:
N/A

Extinguishing Media:
N/A

Usual Fire Fighting Procedures:
Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece in the positive pressure mode. Move container from the fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

Unusual Fire Fighting Procedures:
N/A

Incompatibility:
Contact with strong caustics can cause the liberation of much heat and violent spattering. Also, avoid contact with strong oxidizing agents.

Hazardous Decomposition Products:
Phosphines may form after all the water has been removed. Carbon dioxide, carb monoxide and oxides of nitrogen may also be formed as decomposition occurs.

Hazardous Polymerization:
Will not occur.

Stability:
This material is stable

Section 06 : Spill Or Leak Procedures

Steps To Be Taken In Case Material Is Released Or Spilled:
Liquid or solid spills should be responded to immediately. The spill, if liquid can be absorbed with an inert material; the solid spill can be swept or shoveled and put into a clean container/cover to ensure proper containment. All cleanup materials when contained must be labeled properly and stored in a safe place to await proper disposal. This material cannot be flushed to any sewer or drain. Persons performing the clean-up work should wear personal protective clothing and equipment.

Waste Disposal Method:
The materials resulting from a clean-up operation may be considered a listed hazardous waste and therefore, subject to very specific regulations. You must

contain, store, transport, and dispose of all this material in accordance with all applicable Federal, State, and local health environmental regulations. The shipments of hazardous waste materials are subject to manifesting requirements under all applicable Federal and State Regulations. Appropriate disposal will depend on the nature of the waste material and should be performed by competent and properly permitted facilities.

Section 07 : Exposure Control Information

Respiratory Protection:
NIOSH approved dust or spray mist mask.

Ventilation - Local Exhaust:
Local exhaust ventilation to keep dust and mist below exposure limits.

Ventilation - Special:
N/A

Protective Gloves:
Employees should be provided with and required to wear impervious gloves to prevent any possibility of skin contact with the chemical substance.

Eye Protection:
The individual or employee must wear approved chemical splash goggles and/or face shield to avoid eye contamination.

Other Protective Equipment:
Employees should be provided with and required to use impervious clothing to prevent any possibility of skin contact with this hazardous substance.

Work Practices:
Skin that becomes contaminated with this substance should be immediately washed or showered with soap.

Hygienic Practices:
Eating and smoking should not be permitted in areas where these hazardous substances are handled, processed, or stored. Employees who handle these materials should wash their hands thoroughly with soap and water before eating, smoking, or using the toilet facilities. OSHA cautions that since this substance may penetrate the skin, especially if broken, control of the vapor or dust inhalation may not be sufficient to prevent absorption of an excessive dose and therefore recommends proper hygienic practices at all times.

Section 08 : Special Precautions

Precautions To Be Taken In Handling & Storage:
Store in a dry, well ventilated area away from food stores or beverages.

Other Precautions:
Containers should be kept closed when not in use to avoid the absorption of moisture. Do not store with other chemicals that are incompatible.

Section 09 : Special Health Precautions

Special Health Precautions:

HEALTH	FLAMMABILITY	REACTIVITY	CONTACT
[2]	[0]	[0]	[2]

4-EXTREME
3-SEVERE
2-MODERATE
1-SLIGHT
0-NO KNOWN HAZAR:

NFPA 704M RATING 1-0-0

PRECAUTIONARY LABEL STATEMENTS

CAUTION!
MAY CAUSE IRRITATION
MAY BE FATAL IF SWALLOWED

DOT SHIPPING INFORMATION 49 CFR 172.101, ET AL
PROPER SHIPPING NAME: Corrosive liquids, n.e.s. (chemical name)
HAZARD CLASS: 8, PG II
I. D. NUMBER: UN1760
DOT LABEL: Corrosive

TSCA INVENTORY STATUS... All components appear on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

All information, recommendations and suggestions appearing herein concerning ou

03/21/92

Material Safety Data Sheet

product are based upon data believed to be reliable, however, it is the user's responsibility to determine the safe handling and suitability for his or her own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made as to the effects of such use, the results obtained, or the safety and toxicity of the product nor does the Company per se assume any liability arising out of use, by others, of the product referred to herein. Nor is the information herein to be construed as absolutely complete since more information may be desirable or necessary under particular or exceptional conditions or circumstances exist, or because of applicable laws or government regulations.

Prepared/Revised by: William A. Wilson
Title: Staff Chemist