

Product Name: Hi-K

Section I MANUFACTURERS INFORMATION

Manufacturer's Name & Address

NAP Chemical
821 S. Chestnut
Pasco, Washington 99301

Emergency Telephone Number: 509-547-8234
Number for information: 509-547-8234
Date Prepared: January 16, 1993

Section II HAZARDOUS INGREDIENTS

Material Component	%	Exposure Limits in Air	Hazard Data
		ACGIH TLV	OSHA PEL

Potassium Carbonate	30		
(CAS No. 584-08-7 99)	100		

Surfactant Component			
Linear Alcohol	1		
Ethoxylate			
(CAS No. 68131-39-5)	2.5		

*** Product Identification***

Chemical Name: Plant Nutritional Activator

Chemical Family: Fractions of Humic Acids

Formula: Proprietary Organic Formulation

* Toxic chemical subject to reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

(1) As Fe (2) As Mn (3) Ceiling

Section III PHYSICAL DATA

Boiling Point, 760 MM HG	100 C	Melting Point	n/a
Specific Gravity (H2O=1)	1.360	Vapor Pressure	Not Known
Vapor Density (AIR=1)	Not Known	Solubility in H2O, % BY WT.	
		Approx. 98%	
% Volatile by Vol.	Not known	Evaporation Rate	(Butyl Acetate=1) Not Known

Appearance and Odor Brown/yellow Liquid

Section IV FIRE AND EXPLOSION DATA

Flashing Point		Autoignition	
(Test Method)	N/A	Temperature	N/A
Flammable Limits in Air, % By Vol.		Lower	N/A
		Upper	N/A
Extinguishing Media			
Special fire fighting Procedures			
Unusual Fire and Explosion Hazard			

Section V HEALTH HAZARD INFORMATION

Symptoms of Overexposure

Inhalation: May cause respiratory tract irritation, nausea, vomiting, weakness, fever, chills and loss of appetite. Chronic Exposure may cause pneumonia, liver damage and neuralgic damage.

Skin Contact: May cause skin irritation.

Skin Absorption: None known.

Eye Contact: May cause eye irritation.

Ingestion: Ingestion may result in nausea, vomiting, diarrhea, blood in vomitus and stools, burning pain in the mouth and throat, abdominal pain, lethargy, confusion, edema, leukocytosis, hyperglycemia, acidosis, shock, liver and kidney damage, and other gastrointestinal and

neurologic symptoms and damage. Ingestion by a child of more than 60 ml (2 ounces) or by an adult of more than 150 ml (5 ounces) may be fatal.

Emergency and First Aid Procedures

Eyes: Immediately flush with water for 15 minutes, lifting eyelids to flush thoroughly

Skin: Wash thoroughly with water.

Inhalation: Remove to fresh air. If breathing is difficult, contact a physician.

Ingestion: Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs or vegetable oil. Do not induce vomiting. Contact a physician.

Suspected Cancer Agent?

X No: This product's ingredients are not found in the lists below.

X Yes: ___Federal OSHA ___NTP ___IARC ___CAL/OSHA

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Hemochromatosis.

NOTES TO PHYSICIAN: Contains citric acid (6.8%); pH 1.7. Ingestion of more than 0.5 ml of product per kg body weight may result in iron toxicity.

Section VI REACTIVITY DATA

STABILITY _____Stable _____Unstable

INCOMPATIBILITY (material to avoid) avoid contact with strong alkaline materials such as caustic potash (potassium hydroxide) and caustic soda (sodium hydroxide). Mildly corrosive to common metals.

HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS oxides of sulfur and zinc.

HAZARDOUS POLYMERIZATION N/A

Section VII SPILL, LEAK AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Neutralize with dilute alkaline solution and wash down sewer if federal, state and local regulations permit.

NEUTRALIZING CHEMICALS: Baking soda (sodium bicarbonate), soda ash or lime.

WASTE DISPOSAL METHOD: Follow all applicable federal, state and local regulations.

Section VIII SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS: Use General or local exhaust ventilation to meet TLV requirements.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY: None required where appropriate ventilation conditions exist. If the TLV is exceeded, a self-contained breathing apparatus is advised.

EYE: Safety Goggles.

GLOVES: Acid-resistant gloves such as rubber or neoprene.

OTHER CLOTHING AND EQUIPMENT: Coats, coveralls or aprons are recommended.

Section IX SPECIAL PRECAUTIONS

PRECAUTIONARY STATEMENTS: Avoid contact with skin, eyes or clothing. Do not ingest. Avoid inhalation of mists.

OTHER HANDLING AND STORAGE REQUIREMENTS: Keep lid tightly closed. store in a dry area, above freezing and below 105 f, out of direct sunlight and away from strong alkalis. Keep out of reach of children.

PREPARED BY: David W. Bergevin, MS, P.Ag.

ADDRESS: NAP Chemical

821 S. Chestnut

Pasco, Washington 99301

DATE: January 16, 1993

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