

**Product Name: K-Boost**  
**Product ID # 99**

**Section I MANUFACTURERS INFORMATION**

Manufacturer's Name & Address

NAP Chemical	Emergency Telephone Number:	509-547-8234
821 S. Chestnut	Number for information:	509-547-8234
Pasco, Washington 99301	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)	1.246	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 (Test Method)	N/A	Autoignition Temperature	N/A
Flammable Limits in Air, % By Vol.		Lower N/A	Upper N/A
Extinguishing Media	N/A		
Special fire fighting Procedures	N/A		
Unusual Fire and Explosion Hazard	N/A		

**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, lever 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, condusion, 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.

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**Section VI REACTIVITY DATA**

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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

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**Section VII SPILL, LEAK AND DISPOSAL PROCEDURES**

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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.

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**Section VIII SPECIAL PROTECTION INFORMATION**

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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.

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**Section IX SPECIAL PRECAUTIONS**

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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 alkalies. 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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