



MATERIAL SAFETY DATA SHEET

M.S.D.S.

I - PRODUCT IDENTIFICATION

TRADE NAME (as labeled) : HAWAIIAN BUD & BLOOM

MANUFACTURER'S NAME : GROW MORE, INC.
 15600 New Century Drive
 Gardena, CA 90248
 Tel. (310) 515-1700
 Fax (310) 515-4937

DATE PREPARED/REVISED : March 20, 2000

NAME OF PREPARER : H. Langheim

II - HAZARDOUS INGREDIENTS

Chemical Name	CAS No. & %	Exposure Limits in Air (give units)		
		ACGH TLV	OSHA PEL	OTHER (specify)
Sodium Molybdate	7439987	5 mg/m ³	5 mg/m ³	Oral LD50 Rat: 1750 mg/kg " " "
Manganese EDTA	7439965			
Copper EDTA	7440508			
Zinc EDTA	7440666			

III - PHYSICAL PROPERTIES

VAPOR DENSITY (AIR = 1)	: N/A
SPECIFIC GRAVITY	: Approx. 1.7 g/cc
SOLUBILITY IN WATER	: 300 g/l or greater
VAPOR PRESSURE, mmHg AT 20°C	: N/A
APPEARANCE AND ODOR	: Fine crystals & powder
MELTING POINT OR RANGE, °F	: Not established
BOILING POINT OR RANGE, °F	: N/A
EVAPORATION RATE (BUTYLACETATE = 1)	: 0
DECOMPOSITION TEMPERATURE:	: 250 - 374°F
pH 1% SOLUTION	: 4.5 - 5.5
MOLECULAR WEIGHT	: 110 - 117

CHEMICAL NAME : Proprietary mixture containing Ammonium Phosphate, Potassium Phosphate, Potassium Nitrate, Potassium Sulfate, Ammonium Sulfate, Ammonium Nitrate, Urea and Micronutrients

IV – FIRE AND EXPLOSION

FLASH POINT. °F (Give Method) : Greater than 300°F
AUTO IGNITION TEMPERATURE °F : N/A
FLAMMABLE LIMITS IN AIR (Vol.%) : Non-Flammable Lower (LEL) : N/A
Upper (UEL) : N/A

FIRE EXTINGUISHING MATERIALS

_____ water spray _____ carbon dioxide _____ other
_____ foam _____ dry chemical

SPECIAL FIREFIGHTING PROCEDURE: Use abundant amount of water in early stages of fire.

UNUSUAL FIRE & EXPLOSION HAZARDS: When large quantities are involved in fire, solids may fuse or melt. Noxious Fumes may form, Nitrogen Oxides. In such conditions application of water may result in scattering of molten materials.

V – HEALTH HAZARD INFORMATION

L.D. 50 : Not established.

SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE:

INHALED : Dust can irritate upper respiratory system.
CONTACT WITH SKIN OR EYES : Prolonged skin contact may cause Dermatitis. Dust may irritate eyes.
ABSORBED THROUGH SKIN : Not known adverse effects at this time.
SWALLOWED : Nausea, diarrhea, diuresis, muscular debility.

FIRST AID (EMERGENCY) PRODEDURES:

EYE CONTACT : Wash thoroughly with water for at least 15 minutes. Hold eyelids apart during flushing. Send patient immediately to physician.
SKIN CONTACT : Wash with soap and water.
INHALED : Remove from exposure. Treat symptomatically.
SWALLOWED : Rinse mouth. Drink 2-3 glasses of water and seek medical assistance. Do not induce vomiting or give anything by mouth to an unconscious person.

SUSPECTED CANCER AGENT?

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

 Yes FEDERAL OSHA NTP IARC

(California employers using CAL-OSHA regulated carcinogens must register with CAL-OSHA. The CAL-OSHA and Federal OSHA carcinogen lists are similar).

VI – REACTIVITY DATA

STABILITY : X Stable Unstable

CONDITIONS TO AVOID : Heating with Sodium Phosphite; dissolving with Sodium Hyposulfite long exposure to tin, solder, tin plate or stagnates.

INCOMPATIBILITY
Material to avoid) : Corrosive to Aluminum, Steel, Brass, Copper.

HAZARDOUS DECOMPOSITION PRODUCTS (INCLUDING COMBUSTION PRODUCTS): Nitrogen Oxides.

HAZARDOUS POLYMERIZATION: May occur X Will not occur

CONDITIONS TO AVOID : Avoid fire.

VII – SPILL, LEAK & DISPOSAL PROCEDURES:

SPILL RESPONSE PROCEDURE (Include employee protection measures):

Sweep into breaker. Dilute with sufficient water. Add soda ash. Mix and neutralize with 6m HCL. Drain into the sewer with abundant water.

PREPARING WASTES FOR DISPOSAL (Container types, neutralization, etc.) :

Remove slowly into a large container of water. Add soda ash, slightly stirring. After 24 hours, decant or siphon into another container. Neutralize with 6m HCL and drain into the sewer with abundant water.

VIII – SPECIAL HANDLING INFORMATION

VENTILATION & ENGINEERING CONTROLS: Good mechanical ventilation as dust level is sufficiently high.

RESPIRATORY PROTECTION (TYPE): Wear dust mask if excessive airborne dust is present

EYE PROTECTION (TYPE): Safety glasses or goggles – wear it if dust levels causes discomfort.

GLOVES (SPECIFIC MATERIAL): Rubber or plastic – to prevent irritation

OTHER CLOTHING & EQUIPMENT: Wear protective work gown if desired.

WORK PRACTICES, HYGIENIC PRACTICES: Keep away from open flame. Avoid contact with organics. Put into a dry place

PROTECTIVE MEASURES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT:
Wear a dust protector and eye wear.