



MATERIAL SAFETY DATA SHEET

M.S.D.S.

I - PRODUCT IDENTIFICATION

TRADE NAME (as labeled) : HYDRANGEA BLUEING

CHEMICAL NAME : Aluminum Sulfate, Hydrate

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

DATE PREPARED/REVISED : August 23, 1999

NAME OF PREPARER : H. Langheim

II - HAZARDOUS INGREDIENTS

Chemical Name	CAS No. & %	Exposure Limits in Air (give units)		
		ACGH TLV	OSHA PEL	OTHER (specify)
Aluminum Sulfate	10043-01-3		2 mg/m3	

III- PHYSICAL PROPERTIES

VAPOR DENSITY (AIR = 1) : N/A

SPECIFIC GRAVITY : 65 lbs./cubic feet

SOLUBILITY IN WATER : 87 grm/100grm H₂O @ 20°C

VAPOR PRESSURE, mmHg : N/A

APPEARANCE AND ODOR : white to tan ground crystalline solid
odorless

MELTING POINT OR RANGE, °F : N/A

pH : 3.5% 1% Aqueous Solution

IV – FIRE AND EXPLOSION

FLASH POINT. °F (Give Method) : N/A
 AUTO IGNITION TEMPERATURE. °F :
 FLAMMABLE LIMITS IN AIR. (Vol. %) : Lower (LRL) :
 Upper (UEL) :
 FIRE EXTINGUISHING MATERIALS :
 water spray carbon dioxide other
 alcohol foam dry chemical

SPECIAL FIREFIGHTING PROCEDURE: Must wear MSHA/NIOSH approved self-contained breathing apparatus

UNUSUAL FIRE & EXPLOSION HAZARDS: Products of combustion are toxic. Explosive mixtures form with air.

V – HEALTH HAZARD INFORMATION
SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE:

INHALED : Vapors can cause irritation of mucus membrane
 CONTACT WITH EYES : May cause redness and slight irritation
 ABSORBED THROUGH SKIN : Repeated contact may cause slight irritation. Will not be absorbed through skin
 SWALLOWED : Possible abdominal pain and nausea

FIRST AID (EMERGENCY) PROCEDURES:

EYE CONTACT : Wash thoroughly with water for at least 5 minutes. Seek medical assistance for persistent irritation.
 SKIN CONTACT : Wipe excess material with dry cloth, while removing contaminated clothing and shoes with large amounts of water and soap
 INHALED : Remove from exposure. Treat symptomatically
 SWALLOWED : Give 3 to 4 glasses of milk or water. Do not induce vomiting, or give mouth to mouth contact. Get immediate medical attention.

SUSPECTED CANCER AGENT?

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 : Stable Unstable

CONDITIONS TO AVOID: N/A

INCOMPATIBILITY

Material to avoid) : None known to this time

HAZARDOUS DECOMPOSITION PRODUCTS INCLUDING COMBUSTION PRODUCTS):
THERMAL DECOMPOSITION MAY PRODUCE TOXIC FUMES OF OXIDES OF CARBON

HAZARDOUS POLYMERIZATION: May occur will not occur

VII - SPILL, LEAK & DISPOSAL PROCEDURES:

SPILL RESPONSE PROCEDURES (Include employee protection measures):

Caution! Floors may become slippery. Wear appropriate protective equipment & MSHA/NIOSH approved respirator where mist or vapors of unknown concentration may be generated.

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

Dike and contain spill with inert material (sand, earth, etc. and transfer the liquid & solid separately to containers for recovery or disposal, Keep spill out of sewers and open bodies of water. Dispose off in Compliance with all federal state and local laws and regulations. Incineration is the preferred method

VIII – SPECIAL HANDLING INFORMATION

VENTILATION & ENGINEERING CONTROLS: Local exhaust.

RESPIRATORY PROTECTION (TYPE): Where mist or vapors are generated by the process, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental control.

EYE PROTECTION (TYPE): Wear chemical goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.

GLOVES (SPECIFIC MATERIAL): Rubber or neoprene, when needed, to prevent skin contact.

OTHER CLOTHING & EQUIPMENT: Eye wash, safety shower, protective clothing (long sleeves, coveralls or other appropriate clothing), when needed to prevent skin contact.

WORK PRACTICES, HYGIENIC PRACTICES: Use good housekeeping and hygienic practices such as washing hands with soap after handling.

OTHER HANDLING & STORAGE REQUIREMENTS: To maintain product quality, do not store in heat or direct sunlight.

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