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Material Safety Data Sheet	Hi-Yield® Aluminum Sulphate

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Name: Voluntary Purchasing Groups, Inc.	Box 460, Bonham, TX 75418		
Emergency Telephone: (903) 583-5501 or (800) 424-9300 (Chemtrec)			
For Additional Information Contact: Product Manager or	Date Prepared: 03-14-03		
Chemtrec			
Common Name (Used on Label):	Chemical Family: Inorganic salt		
Hi-Yield® Aluminum Sulphate			
Chemical Name: Aluminum Sulfate, hydrate	Formula: Al2(SO4)3		
Trade Name & Synonyms: Hi-Yield® Aluminum Sulphate			

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Aluminum sulfate	10043-01-3	100	2 mg/m3	2 mg/m3

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration. TLV: Threshold Limit Value recommended by the American Conference of Governmental Industrial Hygienists.

SECTION 3 – PHYSICAL DATA

BOILING POINT (°F)	SPECIFIC GRAVITY (H ₂ O=1)			VAPOR PRESSURE (mm Hg)	
Loses water of hydration at 190	1.04				Does not apply
degrees F					
PERCENT VOLATILE BY VOLUME	(%)	VAPOR DE	NSITY (AIR=1)	EVAPO	DRATION RATE (ethyl ether=1)
Not determined		Not determined Not det		termined	
SOLUBILITY IN WATER			REACTIVITY IN WATER		
Appreciable		Will evolve sulfuric acid			
APPEARANCE AND ODOR					
White to tan-color ground crystalline solid or powder at 68 degrees F (20 degrees C)					

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT (°F)	FLAMMABLE LIMITS IN AIR (% by volume)			
Does not apply	Lower: Not determined Upper: Not determined			
EXTINGUISHING MEDIA		AUTO IGNITION TEMPERATURE		
Water spray, dry chemicals, CO2		Not determined		
UNUSUAL FIRE AND EXPLOSION HAZARDS				
Under fire conditions substance will decompose to give off aluminum oxide and corrosive sulfur trioxide. Sulfur				
trioxide is an oxidizing agent, which supports combustion and will react with water to form sulfuric acid.				
SPECIAL FIRE FIGHTING PROCEDURES				
Products of combustion are irritating to the respir	atory tract and may cau	se breathing difficulty and pulmonary		

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edema. Symptoms may be delayed several hours or longer depending upon the extent of exposure. Prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate nonessential personnel from fire area. Utilize self-contained breathing apparatus with full-face piece operated in pressure demand or other positive pressure mode and impervious protective clothing. Use standard fire fighting techniques to extinguish fires involving this material.

SECTION 5 - HEALTH INFORMATION				
PRIMARY ROUTES OF EXPOSURE	AND TARGET ORGANS			
Inhalation, skin or eye contact, ingesti				
SIGNS AND SYMPTOMS OF EXPOS	JURE			
(1) ACUTE OVEREXPOSURE				
		of sore throat and cough. Irritation may		
		or by direct contact with the eyes. Eye		
	Ingestion of large doses has produced	death in laboratory animals.		
(2) CHRONIC OVEREXPOSURE				
		odular pulmonary fibrosis and fatalities.		
		ers (acroanrsthesia) and sensitization.		
Prolonged eye contact may result in c				
MEDICAL CONDITIONS GENERALL				
Disorders of the respiratory system, sl				
	S CARCINOGEN OR POTENTIAL CA	RCINOGEN		
None		00114		
NTP	IARC □ YES ⊠ NO	OSHA □ YES ⊠ NO		
Not determined				
EMERGENCY AND FIRST AID PROC				
		iration preferably mouth-to-mouth If		
INHALATION: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician. SKIN OR EYE CONTACT: Immediately flush eyes with plenty				
of water for at least 15 minutes. Do not attempt to neutralize with chemical agent. Call a physician. Flush skin with				
water. Wash clothing before reuse. INGESTION: Induce vomiting immediately by giving two glasses of water and				
sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician.				
	SECTION 6 - REACTIVITY DATA			

STABILITY CONDITIONS TO AVOID Unstable Stable Excessive temperatures. INCOMPATIBILITY (Materials to Avoid) Strong alkalis, moisture HAZARDOUS DECOMPOSITION PRODUCTS Aluminum hydroxide, sulfuric acid, aluminum oxide, sulfur trioxide HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID May Occur Will Not occur

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED

Utilize personnel protective equipment. Sweep up or vacuum spilled material and place in a labeled container for disposal or reuse. Cover contaminated area with slurry of common, powdered household laundry detergent and water. Using a stiff brush, work the slurry into cracks and crevices. Allow to stand for 2-3 minutes then flush with water. Repeat if necessary. Comply with all applicable governmental regulations concerning spill reporting, handling, and disposal of wastes.

WASTE DISPOSAL METHOD

Dispose of in accordance with Federal, State, and local regulations.

SECTION 8 - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

NIOSH/MSHA approved respiratory devices to provide high-efficiency protection from dust.

VENTILATION

General or local exhaust to maintain employee exposure below the TLV/PEL.

PROTECTIVE GLOVES

Impervious gloves to prevent skin contact.

EYE PROTECTION

Splash-proof or dust-resistant safety goggles to prevent eye contact with this substance. Contact lenses should not be worn.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

When necessary utilize impervious clothing and other equipment to prevent skin contact with this substance.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

Store in a cool, dry, well ventilated area away from flammable materials and sources of heat or flame. Store away from foodstuffs or animal feed. Exercise due caution to prevent damage to or leakage from the container. Provide eyewash and shower facility in immediate work area for emergency use.

OTHER PRECAUTIONS

Not determined

SECTION 10 - OTHER INFORMATION

The information contained within was obtained from authoritative sources and is believed to be accurate for the manner in which the product is intended to be used. Other uses could result in ramifications, which are not included within this document.

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