

**Material
Safety
Data
Sheet**
Hi-Yield® 529 MSMA Weed Killer
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 Chemtrec	Date Prepared: 03-14-03
Common Name (Used on Label): Hi-Yield® 529 MSMA Weed Killer	Chemical Family: Organic Arsenical Herbicide
Chemical Name: Monosodium Acid Methanearsonate	Formula: CH ₃ AsO ₃ Na
Trade Name & Synonyms: Hi-Yield® 529 MSMA Weed Killer EPA # 7401-246-34911-AA	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Monosodium Methanearsonate	2163-80-6	34	0.2 mg/m ³	0.5 mg/m ³
Inert	Not determined	65.4	Not determined	Not determined

[1]NOTE: This is a toxic chemical and is subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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) >212 degrees F	SPECIFIC GRAVITY (H ₂ O=1) 1.4179	VAPOR PRESSURE (mm Hg) Not established
PERCENT VOLATILE BY VOLUME (%) Not established	VAPOR DENSITY (AIR=1) Not established	EVAPORATION RATE (ethyl ether=1) Not established
SOLUBILITY IN WATER Soluble	REACTIVITY IN WATER Does not apply	
APPEARANCE AND ODOR Light green to clear; mild odor		

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT (°F) Not established	FLAMMABLE LIMITS IN AIR (% by volume) Lower: <u>Not established</u> Upper: <u>Not established</u>	
EXTINGUISHING MEDIA Carbon dioxide, dry chemical foam and water.	AUTO IGNITION TEMPERATURE Not established	
UNUSUAL FIRE AND EXPLOSION HAZARDS Not determined		
SPECIAL FIRE FIGHTING PROCEDURES Cool fire exposed containers with water. Fight fire from maximum distance; dike fire control water for later disposal.		

Use a self-contained breathing apparatus.

SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS

Skin, lungs, liver

SIGNS AND SYMPTOMS OF EXPOSURE

(1) ACUTE OVEREXPOSURE

EYE CONTACT: Severe irritation. SKIN CONTACT: May cause moderate to severe irritation. INHALATION: Excessive exposure may cause respiratory irritation, restlessness, pulmonary edema, dyspnea, cyanosis, coughing, frothy sputum, rales and hematuria. INGESTION: May cause gastrointestinal tract irritation, nausea, vomiting, diarrhea.

(2) CHRONIC OVEREXPOSURE

Arsenic poisoning may occur through ingestion or inhalation; symptoms may cause disturbances of the digestive system such as loss of appetite, cramps, nausea, constipation or diarrhea. Liver damage may occur resulting in jaundice. May also cause disturbances of the blood and kidneys. A recognized carcinogen of the skin, lungs and liver.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Dermatitis

CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

Arsenic

NTP

YES NO

IARC

YES NO

OSHA

YES NO

OTHER EXPOSURE LIMITS

LD50(oral, rat)=1350 mg/kg

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with water for 15 minutes. Seek medical attention if irritation persists. SKIN CONTACT: Remove contaminated clothing; flush with water for several minutes; seek medical attention if irritation persists. INGESTION: Seek medical attention immediately; this is a pentavalent arsenic, BAL is not recommended as treatment; exchange transfusion and dialysis are recommended. INHALATION: Remove victim to fresh air. If not breathing, give artificial respiration, seek medical attention immediately.

SECTION 6 - REACTIVITY DATA

STABILITY

Unstable Stable

CONDITIONS TO AVOID

Reducing agents

INCOMPATIBILITY (Materials to Avoid)

Reducing agents such as aluminum, zinc sodium borohydride and sulfur dioxide and high temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS

Reducing agents may release arsine gas.

HAZARDOUS POLYMERIZATION

May Occur Will Not occur

CONDITIONS TO AVOID

Not determined

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED

Don personal protective equipment. Place contaminated material in a labeled container for disposal.

WASTE DISPOSAL METHOD

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

SECTION 8 - PERSONAL PROTECTION INFORMATION**RESPIRATORY PROTECTION**

Use a NIOSH approved respirator if the PEL or TLV is exceeded.

VENTILATION

Use in a well-ventilated area. General mechanical or local if needed to keep below exposure limits.

PROTECTIVE GLOVES

Rubber or neoprene

EYE PROTECTION

Chemical splash goggles (ANSI Z87.1 1979)

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Full body suit and rubber boots if needed.

SECTION 9 - SPECIAL PRECAUTIONS**PRECAUTIONS TO BE TAKEN IN HANDLING & STORING**

Keep containers closed when not in use, store separate from reducing agents. Store in a cool, dry area away from food, feed and seed.

OTHER PRECAUTIONS

Wash thoroughly after use and before eating or smoking.

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.