

**Material
Safety
Data
Sheet**
Hi-Yield® Atrazine Lawn 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® Atrazine Lawn Weed Killer	Chemical Family: Mixture
Chemical Name: Mixture	Formula: Mixture
Trade Name & Synonyms: Hi-Yield® Atrazine Lawn Weed Killer EPA # 7401-318-34911	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Atrazine	1912-24-9	41	5 mg/m3	5 mg/m3
Ethylene glycol [1]	107-21-1	5	50 PPM*	50 PPM*
* Ceiling concentration				

[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) 103 degrees C	SPECIFIC GRAVITY (H ₂ O=1) 1.12	VAPOR PRESSURE (mm Hg) 1.5
PERCENT VOLATILE BY VOLUME (%) Not determined	VAPOR DENSITY (AIR=1) Not determined	EVAPORATION RATE (ethyl ether=1) Not determined
SOLUBILITY IN WATER 33 PPM	REACTIVITY IN WATER Will not evolve flammable or toxic gases	
APPEARANCE AND ODOR White liquid; odorless		

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT (°F) Not determined	FLAMMABLE LIMITS IN AIR (% by volume) Lower: <u>Not determined</u> Upper: <u>Not determined</u>	
EXTINGUISHING MEDIA Dry chemical, CO ₂ , halon, water spray, standard form	AUTO IGNITION TEMPERATURE Not determined	
UNUSUAL FIRE AND EXPLOSION HAZARDS Prevent use of contaminated buildings, area, and equipment until decontaminated.		
SPECIAL FIRE FIGHTING PROCEDURES Move containers from fire area if possible. Extinguish using agents suitable for surrounding fire. Use flood		

quantities of water as a fog. Keep material out of sewers and water sources. Do not touch spilled material. Avoid breathing hazardous fumes; keep upwind. Utilize self-contained breathing apparatus with full-face piece operated in pressure demand or other positive pressure mode. Evacuate nonessential personnel from the area to prevent exposure to fire, smoke, fumes, or products of combustion.

SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS

Skin absorption, inhalation, skin or eye contact, ingestion

SIGNS AND SYMPTOMS OF EXPOSURE

(1) ACUTE OVEREXPOSURE

Exposure to Atrazine may cause irritation of eyes, skin, or respiratory tract. If swallowed, nausea, vomiting, or diarrhea can result. A skin sensitization (allergic) reaction may occur in sensitive individuals. Ingestion may result in kidney damage. May be absorbed through the skin.

(2) CHRONIC OVEREXPOSURE

Long-term exposure to low levels of atrazine is not known to cause any chronic ill effects in humans. Animal studies indicate an incidence of mammary tumors in rats, and signs of cariotoxicity in dogs and mice. Ethylene glycol has been shown to produce dose-related teratogenic effects in rats and mice.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Disorders of the eyes, skin, respiratory system, and kidneys; and allergic conditions.

CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

None

NTP

YES NO

IARC

YES NO

OSHA

YES NO

OTHER EXPOSURE LIMITS

None determined

EMERGENCY AND FIRST AID PROCEDURES

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. **EYE AND SKIN CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Flush skin with water. Wash clothing before reuse. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician. **NOTE TO PHYSICIAN:** There is not a specific antidote if atrazine is ingested. If a large amount has been ingested and emesis has been inadequate, lavage stomach. Five mg/kg of activated charcoal suspension (50 g/400 ml water) can be given to absorb the remaining toxicant.

SECTION 6 - REACTIVITY DATA

STABILITY

Unstable Stable

CONDITIONS TO AVOID

Does not apply

INCOMPATIBILITY (Materials to Avoid)

Alkalis and mineral acids

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, hydrogen cyanide, acetonitrile, chlorides, and oxides of nitrogen.

HAZARDOUS POLYMERIZATION

May Occur Will Not occur

CONDITIONS TO AVOID

Does not apply

SECTION 7 - SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED**

Utilize personal protective equipment. Cover the spill with an absorbent material such as cat litter. Sweep up the material and place in a labeled container, or the original container, and seal for later disposal or use. Wash the spill area with water containing a strong detergent, absorb with cat litter or other absorbent material, sweep-up, and place in a sealed, labeled container. Rinse the spill area with water to remove any residue. Do not allow wash or rinse water to contaminate water supplies.

WASTE DISPOSAL METHOD

Do not reuse product container. Dispose of product containers, waste containers, and residues in accordance with Federal, State, and local regulations.

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

NIOSH/MSHA approved respiratory devices to protect against toxic dusts and pesticides.

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, rubber boots, hat, and other equipment to prevent skin contact with this substance.

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

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages, or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

OTHER PRECAUTIONS

None 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.