

**Material  
Safety  
Data  
Sheet**
**Hi-Yield® Basagran Herbicide**
**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® Basagran Herbicide	Chemical Family: Benzothiadiazole
Chemical Name: {3-(1-methylethyl)-1H-2, 1, 3-benzothiadiazin-4(3H)-1-2, 2 dioxide	Formula: C10H11N2NaO3S( Active ingredient)
Trade Name & Synonyms: Hi-Yield® Basagran Herbicide EPA # 7969-45-7401	

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Basagran(R) T/O Herbicide	25057-89-0	100	Not established	Not established
Contains: Sodium bentazon		42	Not established	Not established
Inerts		58	Not established	Not established

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) Not determined	SPECIFIC GRAVITY (H <sub>2</sub> O=1) 1.21	VAPOR PRESSURE (mm Hg) Not determined
PERCENT VOLATILE BY VOLUME (%) Not determined	VAPOR DENSITY (AIR=1) Not determined	EVAPORATION RATE (ethyl ether=1) Not determined
SOLUBILITY IN WATER Infinite	REACTIVITY IN WATER pH: 8.0-9.0; Will not evolve flammable or toxic gases	
APPEARANCE AND ODOR Brown liquid; unusual-sweet odor of mild intensity		

**SECTION 4 - FIRE AND EXPLOSION DATA**

FLASH POINT (°F) Not applicable	FLAMMABLE LIMITS IN AIR (% by volume) Lower: <u>Not applicable</u> Upper: <u>Not applicable</u>	
EXTINGUISHING MEDIA Use water fog, foam, carbon dioxide, or dry chemical extinguishing media.	AUTO IGNITION TEMPERATURE Not applicable	
UNUSUAL FIRE AND EXPLOSION HAZARDS None determined		
SPECIAL FIRE FIGHTING PROCEDURES Firefighters should be equipped with self-contained breathing apparatus and turnout gear.		

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**SECTION 5 - HEALTH INFORMATION**

<b>PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS</b> eye and skin contact, ingestion, inhalation		
<b>SIGNS AND SYMPTOMS OF EXPOSURE</b>		
<b>(1) ACUTE OVEREXPOSURE</b> If ingested in sufficient quantities, causes nausea, vomiting, diarrhea and tremors. Causes reversible irritation, redness, swelling to eyes and abraded skin. Inhalation hazard of vapors is not anticipated at normal temperatures. Excessive inhalation of mist causes irritation of mucous membranes. Toxicological Test Data: Basagran® T/O Herbicide: Rat, Oral LD50 1860 mg/kg.		
<b>(2) CHRONIC OVEREXPOSURE</b> None determined		
<b>MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE</b> Disorders of the skin, eyes and respiratory system.		
<b>CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN</b> None		
<b>NTP</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<b>IARC</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<b>OSHA</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<b>OTHER EXPOSURE LIMITS</b> 5mg/m3 (BASF Corporate Recommendation)		
<b>EMERGENCY AND FIRST AID PROCEDURES</b> EYE CONTACT: Immediately wash eyes with running water for 15 minutes. If irritation develops, consult a physician. SKIN CONTACT: Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, consult a physician. INGESTION: If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention. INHALATION: Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.		

**SECTION 6 - REACTIVITY DATA**

<b>STABILITY</b> <input checked="" type="checkbox"/> Unstable <input type="checkbox"/> Stable	<b>CONDITIONS TO AVOID</b> Do not allow to freeze.
<b>INCOMPATIBILITY (Materials to Avoid)</b> Use only with recommended surfactants. Follow instructions on label.	
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b> Combustion may generate sulfur dioxide.	
<b>HAZARDOUS POLYMERIZATION</b> <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not occur	<b>CONDITIONS TO AVOID</b> Not applicable

**SECTION 7 - SPILL OR LEAK PROCEDURES**

<b>STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED</b> Spills should be contained and placed in suitable containers for disposal. This material is not required under RCRA or CERCLA ("Superfund")
<b>WASTE DISPOSAL METHOD</b> Incinerate or bury in a licensed facility. Do not discharge into waterways or sewer systems without proper authorities. CONTAINER DISPOSAL: Triple rinse jugs into sprayer, puncture to render unusable. Crush cans and jugs and bury in an EPA-approved landfill dump. Consult federal, state or local disposal authorities for approved alternative procedures.

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

NIOSH/MSHA approved respiratory devices to protect against pesticides

**VENTILATION**

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

**PROTECTIVE GLOVES**

Utilize rubber gloves

**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 the material in a well-ventilated , secure area out of reach of children. Do not store food, beverages, or tobacco products in the storage area.

**OTHER PRECAUTIONS**

None

**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.