

**Material
Safety
Data
Sheet**
Hi-Yield® Spreader Sticker
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® Spreader Sticker	Chemical Family: Surfactant blend
Chemical Name: Does not apply	Formula: Does not apply
Trade Name & Synonyms: Hi-Yield® Spreader Sticker	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Isopropanol	67-63-0	5	400	400
Ethylene oxide	75-21-8	0.0001 max.	1	1

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) 180 degrees F	SPECIFIC GRAVITY (H ₂ O=1) 0.98	VAPOR PRESSURE (mm Hg) 32
PERCENT VOLATILE BY VOLUME (%) 20%	VAPOR DENSITY (AIR=1) Heavier than air	EVAPORATION RATE (ethyl ether=1) Slower than ether
SOLUBILITY IN WATER Soluble	REACTIVITY IN WATER Not determined	
APPEARANCE AND ODOR Liquid; mild odor		

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT (°F) 68 degrees F (closed cup)	FLAMMABLE LIMITS IN AIR (% by volume) Lower: 2.0 Upper: Not determined	
EXTINGUISHING MEDIA NFPA Class B extinguishers (CO ₂ , dry chemical or foam) or water	AUTO IGNITION TEMPERATURE Not determined	
UNUSUAL FIRE AND EXPLOSION HAZARDS Vapors may accumulate in inadequately ventilated or confined area. Vapors may form explosive mixtures with air and may travel long distances. Flashback of flame to the handling site may occur. Material may splatter above the boiling point.		
SPECIAL FIRE FIGHTING PROCEDURES Closed containers may explode when exposed to extreme heat. Cool fire exposed containers with water. Wear		

NIOSH/MSHA approved self-contained breathing apparatus and protective contact with skin and eyes.

SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS

Inhalation, skin and eye contact, ingestion

SIGNS AND SYMPTOMS OF EXPOSURE

(1) ACUTE OVEREXPOSURE

Inhalation may cause nasal/respiratory irritation & central nervous system depression characterized by headache, dizziness, staggering gait, confusion or unconsciousness. Prolonged or repeated skin contact may cause irritation, dermatitis. Severe irritation will result from eye contact. Ingestion may cause nausea, vomiting, diarrhea & intestinal irritation.

(2) CHRONIC OVEREXPOSURE

Repeated/prolonged overexposure to solvents may cause permanent brain & nervous system damage. Effects include concentration difficulties, diminished manual dexterity & memory loss. Ethylene oxide has been determined to be a cancer & reproductive hazard. Tract levels of EO are not to be expected to result in acute or chronic hazards when handled as described.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Not determined

CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

Ethylene oxide

NTP

YES NO

IARC

YES NO

OSHA

YES NO

OTHER EXPOSURE LIMITS

Not determined

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove from exposure to fresh air. Give artificial respiration or cardiopulmonary resuscitation (CPR) if required. If breathing is difficult, give oxygen. Keep warm and quiet. Get medical attention. **SKIN CONTACT:** Wash affected areas with soap and water. Do not use solvents. Remove contaminated clothing and wash before reuse. Get medical attention. **EYE CONTACT:** Flush with water for 15 minutes. Get medical attention. **INGESTION:** Get medical attention.

SECTION 6 - REACTIVITY DATA

STABILITY

Unstable Stable

CONDITIONS TO AVOID

Does not apply

INCOMPATIBILITY (Materials to Avoid)

Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

Products of combustion are hazardous.

HAZARDOUS POLYMERIZATION

May Occur Will Not occur

CONDITIONS TO AVOID

None recognized

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED

Release of this material to the environment may be reportable under federal law. Remove sources of ignition. Wear personal protection to avoid breathing vapors and skin/eye contact. Use non-sparking tools. For small spills, dike and absorb with inert material. Area of spill may be slippery. Use Emergency Response Professionals if release is beyond capability.

WASTE DISPOSAL METHOD

Material is an ignitable hazardous waste. Insure that it is packaged, stored, transported and managed in accordance with local, State, and Federal hazardous waste regulations.

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

NIOSH/MSHA approved in areas where TLVs may be exceeded or if spray mist is present. In confined areas use NIOSH/MSHA approved air supplied respirators.

VENTILATION

General or local exhaust sufficient to maintain concentration below TLV/PEL.

PROTECTIVE GLOVES

Wear chemically resistant gloves.

EYE PROTECTION

Safety glasses with side shields or goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Avoid skin contact by use of other protective clothing. a safety shower, an eye bath and washing facility should be available.

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

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and flames. Do not store above 120 degrees F. Store in accordance with NFPA codes and governmental regulations. Grounding/bonding procedures should be followed.

OTHER PRECAUTIONS

Empty drums may contain explosive vapors. Do not take internally. Do not inhale vapors. Wash clothing before reuse. Keep product from freezing. Do not smoke in area of use/storage.

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.