MATERIAL SAFETY DATA SHEET

In the event or a medical or chemical emergency contact ChemTel, Inc. North American 1-800-255-3924 or worldwide Intl. + 01-813-248-0585

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, Texas 75418

Effective Date: May 23, 2012

Hi-Yield® Root Killer

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Hi-Yield® Root Killer
CHEMICAL FAMILY: Inorganic Salt
CHEMICAL NAME: Mixture
EPA #: 7401-326

COMPANY IDENTIFICATION:
Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, TX. 75418

2. COMPOSITION/INFORMATION ON INGREDIENTS:

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Copper sulfate [1]	7758-98-7	99.0	1mg/m3(Cu)	1mg/m3(Cu)

[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.

3. PHYSICAL DATA:

BOILING POINT (°F) 1202 degrees F (650 degrees C)	SPECIFIC GRAVITY (H_2O=1) 3.6	VAPOR PRESSURE (mm Hg) Does not apply
PERCENT VOLATILE BY VOLUME (%) Does not apply	VAPOR DENSITY (AIR=1) Does not apply	EVAPORATION RATE (ethyl ether=1) Does not apply
SOLUBILITY IN WATER Appreciable (>10%)	REACTIVITY IN WATER Will not evolve flammable or toxic gases	
APPEARANCE AND ODOR Blue crystalline powder		

4. FIRE AND EXPLOSION DATA:

FLASH POINT (°F) Not determined	FLAMMABLE LIMITS IN AIR (% by volume) Lower: Not determined Upper: Not determined
EXTINGUISHING MEDIA Dry chemical, CO2, Halon, water spray or standard form	AUTO IGNITION TEMPERATURE Not determined
UNUSUAL FIRE AND EXPLOSION HAZARDS Avoid breathing vapors or dusts.	
SPECIAL FIRE FIGHTING PROCEDURES Move containers from fire area if possible. Do not scatter spilled material with high-pressure water streams. Dike fire control water for later disposal.	

MATERIAL SAFETY DATA SHEET

Hi-Yield® Root Killer

In the event or a medical or chemical emergency contact ChemTel, Inc. North American 1-800-255-3924 or worldwide Intl. + 01-813-248-0585

Voluntary Purchasing Groups, Inc.
230 FM 87
Bonham, Texas 75418

Effective Date: May 23, 2012

5. HEALTH INFORMATION:

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS Eyes, skin, inhalation, lungs, central nervous system.		
SIGNS AND SYMPTOMS OF EXPOSURE		
(1) ACUTE OVEREXPOSURE Irritation of the eyes, skin, and mucous membranes may result upon prolonged contact. Inhalation may cause headache or dizziness.		
(2) CHRONIC OVEREXPOSURE Central nervous system depression can result from repeated overexposure. Skin photosensitivity may develop after repeated skin contact.		
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE None determined.		
CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN None		
NTP ☐ YES ☒ NO	IARC ☐ YES ☒ NO	OSHA ☐ YES ☒ NO
OTHER EXPOSURE LIMITS None		
EMERGENCY AND FIRST AID PROCEDURES EYE OR SKIN CONTACT: Flush with plenty of water for at least 15 minutes and get medical attention. Wash contaminated skin with soap and water. INHALATION: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. INGESTION: Do not induce vomiting. Call a physician.		

6. REACTIVITY DATA:

STABILITY ☐ Unstable ☒ Stable	CONDITIONS TO AVOID Does not apply
INCOMPATIBILITY (Materials to Avoid) Oxidizers	
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide	
HAZARDOUS POLYMERIZATION ☐ May Occur ☒ Will Not occur	CONDITIONS TO AVOID Does not apply

7. SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED Dike spill and absorb with an absorbent material (preferably flame retarding) and scoop or sweep into a container. Label to identify contents.
WASTE DISPOSAL METHOD Dispose of in accordance with Federal, State, and local regulations.

8. PERSONAL PROTECTION INFORMATION:

RESPIRATORY PROTECTION Not necessary under normal conditions of use.
VENTILATION Use in well-ventilated area.

PROTECTIVE GLOVES Rubber gloves if skin contact is likely.
EYE PROTECTION Goggles if needed (for spraying or possible splashing)
OTHER PROTECTIVE CLOTHING OR EQUIPMENT If needed, aprons or coveralls.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING Keep away from ignition sources and oxidizers. Keep container closed when not in use.
OTHER PRECAUTIONS Keep out of reach of children.

10. TRANSPORT INFORMATION:

Not regulated by DOT or IMDG.

11. 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.