MATERIAL SAFETY DATA SHEET



Hi-Yield® Copperas

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

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Hi-Yield® Copperas **CHEMICAL FAMILY:** Iron II Sulfate

CHEMICAL NAME: Ferrous Sulfate heptahydrate

FORMULA: FeSO47H2O

COMPANY IDENTIFICATION:

Voluntary Purchasing Groups, Inc.

230 FM 87

Bonham, TX. 75418

2. COMPOSITION/INFORMATION ON INGREDIENTS:

CHEMICAL COMPONENT	% (TYPICAL)
Ferrous Sulfate heptahydrate	Proprietary
Iron (Fe)	19.00%
Sulfur (S)	11.00%

3. PHYSICAL DATA:

BOILING POINT (°F)	SPECIFIC GRA	AVITY (H ₂ O=1)	VAPOR PRESSURE (mm Hg)
Not established	1.899		Not established
PERCENT VOLATILE BY VOLUME	(%) VAPOR	DENSITY (AIR=1)	EVAPORATION RATE (ethyl ether=1)
Not established	Not esta	ablished	Not established
SOLUBILITY IN WATER		REACTIVITY I	N WATER
Miscible		Does not apply	1
APPEARANCE AND ODOR			
Light blue-green solid; sour acidic od	or		

4. FIRE AND EXPLOSION DATA:

FLASH POINT (°F)	FLAMMABLE LIMITS IN AIR (% by volume)	
Does not apply	Lower: Not determined Upper: Not determined	
EXTINGUISHING MEDIA	AUTO IGNITION TEMPERATURE	
Use extinguisher appropriate to surrounding fires.	Does not apply	
UNUSUAL FIRE AND EXPLOSION HAZARDS		
Not determined		
SPECIAL FIRE FIGHTING PROCEDURES		
Use fire-fighting procedures appropriate to surround	ing fires.	

MATERIAL SAFETY DATA SHEET



Hi-Yield® Copperas

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, upper respiratory tract, gastrointestinal tract SIGNS AND SYMPTOMS OF EXPOSURE				
(1) ACUTE OVEREXPOSURE				
EYE CONTACT: Irritation, itching, stinging. SKIN CONTACT: Irritation. INI	HALATION: Irritation of upper respiratory			
tract. INGESTION: Irritation of G.I. tract, stomach ache, acidic or sour taste, and possible shock, liver damage, tachycardia, or death.				
(2) CHRONIC OVEREXPOSURE				
Not determined				
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE				
Dermatitis, asthma or conjunctivitis				
CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN				
None				
NTP IARC	OSHA			
☐ YES ☒ NO ☐ YES ☒ NO	☐ YES ☐ NO			
OTHER EXPOSURE LIMITS				
LD50 (oral-rat)-1480 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. Do not induce vomiting. INHALATION: Remove victim to fresh				
air. If not breathing, give artificial respiration. Seek medical attention immed	ulately.			
6. REACTIVITY DATA:				
STABILITY CONDITIONS TO AVOID				
☐ Unstable ☐ Stable Extremely high temperatures.				
INCOMPATIBILITY (Materials to Avoid)				
Oxidizing agents and alkalis				
HAZARDOUS DECOMPOSITION PRODUCTS				
Sulfur oxides, SO2 and SO3				
HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID				
☐ May Occur ☐ Will Not occur Not determined				
7. SPILL OR LEAK PROCEDURES:				
7. SPILL OR LEAK PROCEDURES:				
STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED				
Don protective equipment if needed. See Section 8. Sweep into a labeled container for disposal.				
WASTE DISPOSAL METHOD				
Dispose of in accordance with Federal, State, and local regulations.				

MATERIAL SAFETY DATA SHEET



Hi-Yield® Copperas

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

8. PERSONAL PROTECTION INFORMATION:

RESPIRATORY PROTECTION

NIOSH/MSHA approved respirator if concentration is above the exposure limit.

VENTILATION

Use in a well-ventilated area.

PROTECTIVE GLOVES

If skin contact is likely to occur.

EYE PROTECTION

Safety goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Not determined

9. PHYSICAL AND CHEMICAL PROPERTIES:

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

Store in a dry area below 75 degrees F. Keep container closed when not in use.

OTHER PRECAUTIONS

Not determined.

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.