

# Material Safety Data Sheet

## Hi-Yield® Lawn Fertilizer 15-5-10

### 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):<br>Hi-Yield® Lawn Fertilizer 15-5-10 | Chemical Family: Does not apply                                                                                                     |
| Chemical Name: Does not apply                                     | Formula: Mixture of monoammonium phosphate, ammonium sulphate, urea, muriate of potash, vermiculite, diatomaceous earth, and water. |
| Trade Name & Synonyms: Hi-Yield® Lawn Fertilizer 15-5-10          |                                                                                                                                     |

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| HAZARDOUS COMPONENT              | CAS NUMBER | % (TYPICAL) | TLV (UNITS)     | PEL (UNITS)     |
|----------------------------------|------------|-------------|-----------------|-----------------|
| Monoammonium phosphate           | 7722-76-1  | Proprietary | Not established | Not established |
| Ammonium sulphate [1]            | 7783-20-2  | Proprietary | Not established | Not established |
| Urea                             | 57-13-6    | Proprietary | Not established | Not established |
| Attapulgite (diatomaceous earth) | 12174-11-7 | Proprietary | 0.1 mg/m3*      | 0.1 mg/m3*      |
| Potassium chloride               | 7447-40-7  | Proprietary | Not established | Not established |
| * Respirable quartz              |            |             |                 |                 |

[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)<br>Does not apply                               | SPECIFIC GRAVITY (H <sub>2</sub> O=1)<br>0.5 | VAPOR PRESSURE (mm Hg)<br>Does not apply                         |
| PERCENT VOLATILE BY VOLUME (%)<br><1%                              | VAPOR DENSITY (AIR=1)<br>Does not apply      | EVAPORATION RATE (ethyl ether=1)<br>Does not apply               |
| SOLUBILITY IN WATER<br>Appreciable                                 |                                              | REACTIVITY IN WATER<br>Will not evolve flammable or toxic gases. |
| APPEARANCE AND ODOR<br>Multicolored granules; slight chlorine odor |                                              |                                                                  |

### SECTION 4 - FIRE AND EXPLOSION DATA

|                                                                     |                                                                                      |             |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------|
| FLASH POINT (°F)<br>Does not apply                                  | FLAMMABLE LIMITS IN AIR (% by volume)<br>Lower: Not determined Upper: Not determined |             |
| EXTINGUISHING MEDIA<br>Water, foam, dry chemical, or carbon dioxide | AUTO IGNITION TEMPERATURE<br>Not determined                                          |             |
| Product Name: Hi-Yield® Lawn Fertilizer                             | ID Number:                                                                           | Page 1 of 3 |

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Thermal decomposition will evolve ammonia and sulfur trioxide. May form an explosive mixture when dispersed in air. An explosion hazard will exist if mixed with oxidizers such as potassium chlorate, potassium nitrate, or potassium nitrite.

**SPECIAL FIRE FIGHTING PROCEDURES**

Wear pressure-demand, self-contained breathing apparatus, MSHA/NIOSH approved or equivalent, and full protective gear. Avoid inhalation of fumes and dusts.

**SECTION 5 - HEALTH INFORMATION****PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS**

Skin and eye contact, inhalation, ingestion

**SIGNS AND SYMPTOMS OF EXPOSURE****(1) ACUTE OVEREXPOSURE**

Ingestion of large quantities may cause symptoms of non-specific irritation of the gastrointestinal tract; nausea, vomiting, cramps, and diarrhea. Eye and skin contact may result in local irritation. Inhalation of high concentrations may result in upper respiratory tract irritation.

**(2) CHRONIC OVEREXPOSURE**

Inhalation of dust may permanently damage the lungs and result in the development of pneumoconiosis, silicosis, or other respiratory disorders.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

Disorders of respiratory system, dermatitis, or other skin disorders.

**CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN**

None

**NTP**

☐ YES ☒ NO

**IARC**

☐ YES ☒ NO

**OSHA**

☐ YES ☒ NO

**OTHER EXPOSURE LIMITS**

ACGIH TLV (nuisance dust)=10 mg/m<sup>3</sup>; OSHA PEL (nuisance dusts)= 15 mg/m<sup>3</sup>

**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 CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of entire surface of the eye and lids with water. Obtain medical attention if irritation persists. Oils and ointments should not be used unless directed by a physician. **SKIN CONTACT:** Immediately wash skin with soap and plenty of water. Wash clothing before reuse. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**SECTION 6 - REACTIVITY DATA****STABILITY**

☐ Unstable ☒ Stable

**CONDITIONS TO AVOID**

Decomposes upon heating

**INCOMPATIBILITY (Materials to Avoid)**

Strong oxidizers and alkalis, potassium chlorate, potassium nitrate, and potassium nitrite.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Ammonia, sulfur trioxide, phosphorous oxides, cyanuric acid, cyanic acid, and carbon dioxide.

**HAZARDOUS POLYMERIZATION**

☒ May Occur ☐ Will Not occur

**CONDITIONS TO AVOID**

Avoid heating or direct exposure to sunlight.

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

Cleanup of spills may require personal protective equipment (see Section 8). Sweep-up or vacuum the material to the original container, or to a sealed, labeled container. Keep spill out of sewers and open bodies of water.

**WASTE DISPOSAL METHOD**

Components of this product are toxic to aquatic life. Dispose of in accordance with Federal, State, and local regulations.

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

NIOSH/MSHA approved for protection against toxic dusts containing quartz. If ammonia vapors are encountered, NIOSH/MSHA approved respirators for protection against ammonia vapors.

**VENTILATION**

Local or general exhaust to maintain exposure below TLV/PEL.

**PROTECTIVE GLOVES**

PVC or Neoprene

**EYE PROTECTION**

Safety goggles (ANSI Z87.1 1979)

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

Apron, boots, long sleeved shirt and full-length pants (or overalls) may be worn when necessary to prevent skin contact. Eye wash and shower facilities should be available.

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

Corrosive to cast iron and aluminum. Store in dry, cool, ventilated area, out of direct sunlight. Separate from strong oxidizers.

**OTHER PRECAUTIONS**

Not 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.