

# MATERIAL SAFETY DATA SHEET



In the event of 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

## Hi-Yield® Compost Maker

Effective Date: May 23, 2012

### 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT:** Hi-Yield® Compost Maker  
**CHEMICAL FAMILY:** Diamide  
**CHEMICAL NAME:** Urea-Carbamide  
**FORMULA:** CO(NH<sub>2</sub>)<sub>2</sub>

#### COMPANY IDENTIFICATION:

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Bonham, TX. 75418

### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Urea	57-13-6	100	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.

### 3. PHYSICAL DATA:

BOILING POINT (°F) Decomposes @ 271	SPECIFIC GRAVITY (H <sub>2</sub> O=1) 1.335	VAPOR PRESSURE (mm Hg) Does not apply	
PERCENT VOLATILE BY VOLUME (%) Not determined	VAPOR DENSITY (AIR=1) Not established	EVAPORATION RATE (ethyl ether=1) <1	
SOLUBILITY IN WATER Appreciable	REACTIVITY IN WATER Will not evolve flammable or toxic gases		
APPEARANCE AND ODOR White solid; slight ammoniacal odor			

### 4. FIRE AND EXPLOSION DATA:

FLASH POINT (°F) Does not apply	FLAMMABLE LIMITS IN AIR (% by volume) Lower: Not determined Upper: Not determined		
EXTINGUISHING MEDIA Dry chemical, CO <sub>2</sub> , Halon, water spray or standard form	AUTO IGNITION TEMPERATURE Not determined		
UNUSUAL FIRE AND EXPLOSION HAZARDS Not determined			
SPECIAL FIRE FIGHTING PROCEDURES Move containers from fire area if possible. Avoid breathing vapors or dusts. Keep upwind.			

### 5. HEALTH INFORMATION:

PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS Skin and eye contact, inhalation, ingestion.
SIGNS AND SYMPTOMS OF EXPOSURE

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(1) ACUTE OVEREXPOSURE Inhalation may cause severe irritation of the mucous membranes with sore throat, coughing and shortness of breath. Eye or skin contact may result in local irritation including burning and itching. Ingestion may cause sore throat and abdominal pain.		
(2) CHRONIC OVEREXPOSURE Repeated or prolonged eye contact may result in conjunctivitis.		
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE Disorders of respiratory system, eyes or skin.		
CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN None		
NTP <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	IARC <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	OSHA <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
OTHER EXPOSURE LIMITS ACGIH TLV (nuisance dusts)=10 mg/m <sup>3</sup> ; OSHA PEL (nuisance dusts)= 15mg/m <sup>3</sup>		
EMERGENCY AND FIRST AID PROCEDURES INHALATION: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician. EYE OR SKIN CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Flush skin with water. Wash clothing before reuse. INGESTION: Treat symptomatically and supportively. Get medical attention immediately. If vomiting occurs, keep head lower than hips to prevent aspiration.		

### 6. REACTIVITY DATA:

STABILITY <input type="checkbox"/> Unstable <input checked="" type="checkbox"/> Stable	CONDITIONS TO AVOID Does not apply
INCOMPATIBILITY (Materials to Avoid) May form a spontaneously explosive mixture with oxidizers and other compounds. Do not mix with other agents.	
HAZARDOUS DECOMPOSITION PRODUCTS Thermal decomposition may produce biuret, corrosive ammonia, carbon dioxide, nitrogen dioxide, cyanic and cyanic acid.	
HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> 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 Sweep up and place in suitable labeled container, or original container, for later disposal or reclamation. Comply with all applicable governmental regulations concerning spill reporting, handling, and disposal of waste.
WASTE DISPOSAL METHOD Dispose of in accordance with Federal, State, and local regulations.

### 8. PERSONAL PROTECTION INFORMATION:

RESPIRATORY PROTECTION NIOSH/MSHA approved respiratory devices to prevent high-efficiency protection against particulate matter and organic vapors.
VENTILATION Local or general exhaust to maintain exposure below TLV/PEL.
PROTECTIVE GLOVES Impervious gloves to prevent skin contact.

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### 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

### PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

Store in a cool, dry area, below 271 degrees F. Keep away from oxidizing agents. Do not mix with other agents.

### 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.