

## CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FORMULATOR'S NAME: Oregon Vineyard Supply  
2700 St Joseph Rd,  
McMinnville Or 97128

24-Hour Emergency Phone

PRODUCT NAME: 20-0-0 LIQUID UREA FERTILIZER  
Inorganic/Organic Chemical Fertilizer Mixture

24 Hour Emergency HAZMAT Response:  
Chemtrec; 1-800-424-9300

CHEMICAL FAMILY: Nitrogen Liquid Blended Fertilizer  
EPA REG. NO.: Not applicable

EPA National Response Center. (800) 424-8802

MSDS Number: 1000LIQ-001

MSDS Revisions: 11/17/2014

Date of Issue: 11/17/2014

## COMPOSITION, INFORMATION ON INGREDIENTS (Note: see product tag or label for specific ingredients)

Chemical Ingredients:	Percentage by Weight	CAS No.
Total Nitrogen (N)	20.00	Mixture
Available Phosphate (P20o)	0.00	Mixture
Soluble Potash (K2O)	0.00	Mixture
Fertilizer salts and inert ingredients	80.00	

## HAZARDS IDENTIFICATION SUMMARY

CAUTION: KEEP OUT OF REACH OF CHILDREN  
This product is a water clear liquid with fertilizer-like odor. Primary routes of entry are Inhalation, eye contact and skin contact.

## FIRST AID MEASURES

**Eyes:** Flush eyes with large amount of water for at least 15 minutes. Consult a physician if irritation persists.

**Skin:** Remove all contaminated clothing. Wash skin, hair, and fingernails thoroughly with soap and water. If irritation persists seek medical attention. Wash clothing before reuse.

**Ingestion:** If swallowed, give 2 glasses of water to drink. Do not induce vomiting or give anything by mouth to an unconscious person. Call a physician to get medical attention

**Inhalation:** Move subject to fresh air. Give artificial respiration if breathing has stopped. If breathing is difficult, give oxygen, get medical attention immediately.

## FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): Not Flammable

FLAMMABLE LIMITS (LEL & UEL): Not applicable

EXTINGUISHING MEDIA: Considered non-combustible, use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog.

HAZARDOUS COMBUSTION PRODUCTS: May include but are not limited to oxides of carbon, hydrogen chloride, hydrogen fluoride, oxides of nitrogen, ammonia, oxides of phosphorus, oxides of sulfur, hydrogen sulfide.

SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Dusts or vapors can travel to a sources of ignition and flash back.

## ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:  
Avoid breathing vapors. Absorb and sweep up liquid spills immediately and transfer to suitable containers for possible land application according to label use or for disposal. Check local, state and federal regulations for proper disposal.

**CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.**

## HANDLING AND STORAGE

HANDLING: Store in a cool dry place away from children, feed and food products, and seed.

OTHER PRECAUTIONS: Toxic to fish and other aquatic organisms. Do not contaminate water supplies by handling and storage of product. Drift or runoff may adversely affect aquatic invertebrates and non-target plants.

## EXPOSURE CONTROLS /PERSONAL PROTECTION

ENGINEERING CONTROLS: Not normally required.

RESPIRATORY PROTECTION: Not normally required, if vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved pesticide respirator.

EYE PROTECTION: Chemical goggles or shielded safety glasses.

SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear rubber or chemical-resistant gloves.

OSHA PEL 8 hr TWA  
Not established

ACGIH TLV-TWA  
Not Established

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Water clear liquid with fertilizer-like odor  
 SPECIFIC GRAVITY (Water= 1): 1.124 g/ml  
 VAPOR PRESSURE: Not established  
 PERCENT VOLATILE (by volume): Not established  
 Note: These physical data are typical values based on material tested but may vary from sample to sample.  
 Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

BULK DENSITY: 9.38 lbs/gallon  
 BOILING POINT: Not established  
 EVAPORATION RATE: Not established

SOLUBILITY: Soluble  
 pH: 7.2 - 8.5

STABILITY AND REACTMITY

STABILITY: Stable  
 NCOMPATIBILITY: None known.  
 Hazardous Decomposition Products: Urea may decompose to release cyanuric acid, ammonia, HCN, NO.  
 Hazardous Polymerization: Will not occur.

CONDITIONS TO AVOID: None known.

TOXICOLOGICAL INFORMATION

Acute Oral LD50 (rat): >5000 mg/kg  
 Eye Irritation (rabbit): May cause moderate irritation  
 Inhalation: May cause respiratory tract irritation.  
 Carcinogenic Potential: None listed in OSHA, NTP, IARC or ACGIH

Acute Dermal LD 50 (rabbit): >5000 mg/kg  
 Skin Irritation (rabbit): May cause slight irritation  
 Ingestion: May cause stomach distress, nausea or vomiting.

ECOLOGICAL INFORMATION

Drift or runoff may adversely affect non-target plants. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water.  
 Do not apply when weather conditions favor drift from target area.

DISPOSAL CONSIDERATIONS

Do not reuse container. Plastic Jugs: Triple rinse (or equivalent), then offer for recycling at an ACRC site or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state and federal regulations.

TRANSPORT INFORMATION

DOT Shipping Description: Not regulated by DOT by highway.  
 U.S. Surface Freight Classification: Fertilizing Compounds (Manufactured Fertilizers), NOI; Liquid (NMFC 68140, Sub 5; Class 50)

REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

NFPA	HMIS
1 Health	0 Least
0 Flammability	1 Slight
0 Instability	2 Moderate
	3 High
	4 Severe
	1 Health
	0 Flammability
	0 Reactivity
	H PPE

SARA Hazard Notification/Reporting  
 SARA Title III Hazard Category: Immediate Y Fire N Sudden Release of Pressure N  
 Delayed N Reactive N

Reportable Quantity (RQ) under U.S. CERCLA: Not listed  
 SARA, Title III, Section 313: Not listed  
 RCRA Waste Code: Not listed  
 CA Proposition 65: Not listed

OTHER

MSDS STATUS: Revisions made 11/17/14

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