FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

- 1.1 PRODUCT IDENTIFIER: TRADE NAME:
- TRANSPLANT SUPREME 3.6-8.02-4.48 LIQUID PLANT NUTRITION
- 1.2 RECOMMENDED USE:
- 1.3 SUPPLIER DETAILS:
  - LOVELAND PRODUCTS, INC.
  - P.O. Box 1286 Greeley, CO 80632-1286
- 1.4 24-Hour Emergency Phone: 1-800-424-9300 Medical Emergencies: 1-866-944-8565 U.S. Coast Guard National Response Center: 1-800-424-8802

## 2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture
  - Classification Not classified
- 2.2 Label elements



Further information: **2.3 Other hazards** 

None known

## KEEP OUT OF REACH OF CHILDREN -

Appearance and odor: Dark brown liquid with earthy odor.

CAUTION – POSSIBLE SKIN IRRITATION – POSSIBLE EYE IRRITATION – POSSIBLE MUCOUS MEMBRANE IRRITATION Potential Health effects

Routes of exposure	Eye contact, skin contact, inhalation.
Eyes	Can cause eye irritation.
Skin	Can cause skin irritation.
Inhalation	May be irritating to respiratory system.
Ingestion	May be irritating to mouth, throat, and stomach.
Target organs	Skin. Eyes. Inhalation.
Signs and symptoms	May cause irritation to the eyes, skin, gastrointestinal tract, and respiratory system.
Potential environmental effects	This product is not classified as anvironmentally bazardous. However, this does not exclude the possibility that la

The product does not need to be labeled in accordance with EC directives or respective national laws.

**Potential environmental effects** This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have harmful or damaging effect on the environment.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Chemical Name:	CAS No.	Classification	Concentration [%]
Monoammonium Phosphate	7722-76-1		varies
Potassium Nitrate	7757-79-1		varies
Copper Sulfate	7758-98-7		varies
Zinc Sulfate	7733-02-0		varies
Water	7732-18-5		balance

### 4. FIRST AID MEASURES

4.1 Description of First	Aid Measures
General Advice:	Get medical attention if symptoms occur.
Eye contact:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Ingestion:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.
Skin contact:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

### 4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Risk of damage to eyes. Skin irritation. Mucous membrane irritation.

## 4.3 Immediate Medical Attention and Special Treatment

Treatment: Treat symptomatically. Symptoms may be delayed.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565 Take container, label or product name with you when seeking medical attention.

**NOTES TO PHYSICIAN:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

### 5. FIRE FIGHTING MEASURES

## 5.1 EXTINGUISHING MEDIA:

	Suitable Extinguishing Media:	Water fog, water spray, carbon dioxide ( $CO_2$ ), foam. Do not use water jet as this will spread the fire.				
5.2	SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:					
	Specific Hazards During Firefighting:	During a fire, irritating, corrosive and/or toxic gases may be produced.				
5.3	3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS					
	Special Protective Equipment for Firefighters:	Self-contained breathing apparatus and full protective gear should be worn in fighting large fires				
		involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate				
		fire and deny unnecessary entry.				

6. ACCIDENTAL RELEASE MEASU	ACCIDENTAL RELEASE MEASURES						
6.1 PERSONAL PRECAUTIONS, PROTE	CTIVE EQUIPMENT AND EMERGENCY PROCEDURES						
Personal Precautions:	Avoid inhalation of vapors and spray mist and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing.						
6.2 ENVIRONMENTAL PRECAUTIONS							
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains sewers or watercourses						

#### 6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP Methods for Clean-Up: Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. After removal flush contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to Remove residual contamination.

Never return spills to original containers for re-use.

## 7. HANDLING AND STORAGE

## 7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling :

Avoid inhalation of vapors / spray and contact with eyes, skin and clothing. Do not breathe mist or vapor. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking and/or smoking.

## 7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers:

Store in a cool, dry place. Store in original container. Keep tightly closed. Do not reuse empty container. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROL	S / PERSONAL PROTECTION				
8.1 CONTROL PARAMETER	· C ·				
OCCUPATIONAL EXPOSURE					
OSHA PELs TWA					
Components	Туре	Value			
No listings	TŴA				
Biological limit values					
ACGIH Biologic	al Exposure Indices				
Components	Value	Specimen			
No listings					
8.2 EXPOSURE CONTROLS	:				
Engineering Measures					
Work in well-ventilated are	ea. Local exhaust may be required if	working in confined space.			
Individual Protection Me	asures:				
Eye / Face Protection:	Protection: Goggles or shielded safety glasses are recommended.				
Skin Protection:	Wear long sleeved shirt, long pants, shoes and socks.				
Respiratory Protection:		ying respirator for pesticide handling if necessary. If respirators are used, a			
	program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard.				
	vvear air supplied respiratory prot	ection if exposure concentrations are unknown.			

# 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	APPEARANCE :	Dark liquid				
	ODOR:	Earthy.				
	ODOR THRESHOLD:	0.1 ppm.				
	COLOR:	Dark brown.				
	pH:	No data available				
	MELTING POINT / FREEZIN	G POINT: No data available				
	BOILING POINT:	No data available				
	FLASH POINT:	Does not flash				
	FLAMMABILILITY (solid, gas): Does not support combustion.					
	UPPER / LOWER FLAMMAB	LITY OR EXPLOSIVE LIMITS: Not applicable.				
	VAPOR PRESSURE:	No data available.				
	SOLUBILITY:	Soluble				
	PARTITION CO-EFFICIENT,	n-OCTANOL / WATER: No data.				
	AUTO-IGNITION TEMPERAT	URE: No data available.				
	DECOMPOSITION TEMPERA	ATURE: Not determined				
	VISCOSITY:	Not determined				
	SPECIFIC GRAVITY (Water =	= 1): 1.14 g/ml				
	BULK DENSITY:	9.55 lbs/gal. / 1.14 kg/L				
Note:	These physical data are ty	pical values based on material tested but may vary from sample to sample.				
	<b>T</b> ' ' ' ' ' ' ' ' ' ' ' ' '					

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

### **10. STABILITY AND REACTIVITY**

## **10.1 REACTIVITY**

# Stable

- 10.2 CHEMICAL STABILITY
- Stable under normal temperature conditions 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

U.S PUSSIBILITT OF HAZARDOUS REACTIONS

No reactions known under normal use conditions. Will not polymerize.

## **10.4 CONDITIONS TO AVOID**

Extreme temperatures, flame, and exposure to unknown incompatible materials.

**10.5 INCOMPATIBILE MATERIALS** 

#### None known. 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Decomposition products can include and are not limited to oxides of carbon and oxides of nitrogen.

## 11. TOXICOLOGICAL INFORMATION

#### **11.1 LIKELY ROUTES OF EXPOSURE**

Skin contact, eye contact. LC<sub>50</sub> (rat): No data available. LD<sub>50</sub> Oral (rat): 1,700 mg/kg (Zinc Sulfate) LD<sub>50</sub> Dermal (rat): No data available Acute Toxicity Estimates: No data available Skin Irritation (rabbit): No data available Eye Irritation (rabbit): No data available Specific Target Organ Toxicity: Single exposure: No data available. Aspiration: No data available Skin Sensitization (guinea pig): Not a sensitizer Carcinogenicity: No data available Germ Cell Mutagenicity: No data available Interactive Effects: None known

## 12. ECOLOGICAL INFORMATION

#### **12.1 ECOTOXICITY**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Ecoloxicological D	ala			
Components		Species	Test Results	
No data available	9			
Aquatic				
No data available	9			
Aquatic				
No data available	9			
Drift or runoff may a	dversely affect non-target pla	nts.		
Do not apply directly	to water.			
Do not contaminate	water when disposing of equ	ipment wash water.		
Do not apply when w	veather conditions favor drift	from target area.		
12.2 PERSISTENCE AN	D DEGRADABILITY			
Biodegradability:	The product is not readily	/ biodegradable		
12.3 BIOAČCUMULATI	VE POTENTIAL	C C		
Bioaccumulation:	No data available.			
<b>12.4 MOBILITY IN SOIL</b>				
This product is wate	er soluble and may disperse i	n soil.		
12.5 OTHER ADVERSE	EFFECTS			
Assessment:	No data available.			

## 13. DISPOSAL CONSIDERATIONS

### **13.1 WASTE TREATMENT METHODS**

Do not reuse containers for any purpose. Rinse container thoroughly, adding rinsate to mixing tank. Then offer for recycling at an ACRC site (go to <a href="http://www.acrecycle.org/">http://www.acrecycle.org/</a> for locations) or dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Do not contaminate water, food, or feed by storage or disposal.

### 14. TRANSPORT INFORMATION

#### 14.1 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; LIQUID (NMFC 68140, SUB 6; CLASS 70)

## **15. REGULATORY INFORMATION**

## 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings:	NF	NFPA		HMIS		
	1 0 0	Health Flammability Instability	0 1 2 3 4	Least Slight Moderate High Severe	1 0 0 B	Health Flammability Reactivity PPE
SARA Hazard Notification/Reporting SARA Title III Hazard Category:		nediate <u>Y</u> layed <u>N</u>		Fire _ Reactive _	N N	Sudden Release of Pressure <u>N</u>

Reportable Quantity (RQ) under U.S. CERCLA: Zinc Sulfate (CAS: 7446-19-7) 1,000 lbs.

SARA, Title III, Section 313: Zinc Compounds

RCRA Waste Code: Not listed

CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

### 16. OTHER INFORMATION

### SDS STATUS: New

PREPARED BY: Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

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