

SDS REVISIONS: SECS. 2, 3

DATE OF ISSUE: 12/08/15

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

IDENTIFICATION OF THE MATERIAL AND SUPPLIER 1.

- 1.1 PRODUCT IDENTIFIER: TRADE NAME:
 - STANCHION-S[™] 7-20-0.03 LIQUID NUTRIENT
- 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

HAZARDS IDENTIFICATION 2.

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200		
Eye Damage/Irritation	Category 2B	H320
Acute Toxicity - Dermal	Category 5	H313
Acute Toxicity - Oral	Category 4	H302
Acute Toxicity – Inhalation	Category 5	H333

2.2 Label elements



Signal word: Hazard Statement:	WARNING H320 – Causes eye irritation. H313 – May be harmful in contact with skin. H302 – Harmful if swallowed. H333 – May be harmful if inhaled.
Precautionary	
Statement:	P264 – Wash hands and face thoroughly after handling. P270 – Do not eat, drink or smoke when using this product
(Prevention): Precautionary	
Statement: (Response):	P305+P351+P338 – IF IN EYES: Rinse cautiously with water for 15 to 20 minutes. Remove contact lenses, if present, and easy to do. Continue rinsing.
	P337+P313 – If eye irritation persists: Get medical advice/attention. P301+P312 – IF SWALLOWED: Call a POISON Center or doctor/physician if you feel unwell. P330 – Rinse mouth.
Precautionary Statement:	
(Disposal):	P501 – Dispose of contents/container in accordance with local regulations.

2.3 Other hazards None known



COMPOSITION, INFORMATION ON INGREDIENTS 3.

3.1 Substances

Classification according to 29 CFR 1910.1200

3.2 Mixtures

Chemical Name:	CAS No.	Classification	Concentration [%]
Manufacturer's Base	Mixture	Eye dam/irrit; 2B, H320.	60 - 64
Ammonium Polyphosphate	68333-79-9	Dermal tox; 5, H313	18 - 19
Urea	57-13-6	Oral tox; 4, H302	trace
Zinc EDTA	14025-21-9	Inh tox; 5, H333	trace - 0.2
Water	7732-18-5		trace - 0.12
*Other ingredients	n/a		
*Ingredients not specifically listed 1910.1200(i)	are non-hazardous or are to be	considered proprietary or confidential business info	mation per 29 CFR

FIRST AID MEASURES 4.

4.1 Description of First Aid Measures

Get medical attention if symptoms occur. General Advice:

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 center 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 Eye irritation.

Symptoms:

4.3 Immediate Medical Attention and Special Treatment

Treat symptomatically. Symptoms may be delayed. Treatment: 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.

FIRE FIGHTING MEASURES 5.

EXTINGUISHING MEDIA: 5.1

- Suitable Extinguishing Media: Foam, carbon dioxide (CO₂), dry powder, water spray. Do not use water jet as this will spread the fire. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE: 5.2
- Specific Hazards During Firefighting: During a fire, oxides of carbon and silicon dioxide can be released.
- SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS 5.3 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 MEASURES

Personal Precautions:	E EQUIPMENT AND EMERGENCY PROCEDURES Avoid inhalation of vapors, dusts 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 CONTA	AINMENT 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 dusts, vapors / spray and contact with eyes, skin and clothing. Do not breathe dusts, 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 Cont	rs: Store above 40 ^o F (4.4 ^o C). Store in original containers only. Keep containers tightly close when not in use. Store in a cool, dry well-ventilated area, preferably in a locked storage area away from children, feed and food products and seed. Do not contaminate water, the or feed by storage or disposal.	е	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CCUPATIONAL EXPOSURE LIMITS U.S. Workplace Exposure Level ((OSHA) PELs		
Components	Туре	Value	
Ammonia (ACGIH® TLVs®)	TWA STEL/CEIL (C)	35 mg/m ³ 24 mg/m ³	
ological limit values			
ACGIH Biological Expos	ure Indices		
Components	Value	Specimen	
No listings			

8.2 EXPOSURE CONTROLS:

Engineering Measures

Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and spray mists. Provide eyewash station and safety shower.

Individual Protection Measures:

Eye / Face Protection: Skin Protection:	Goggles or shielded safety glasses are recommended. Chemical resistant clothing is recommended. Routinely wash work clothing and protective equipment to remove
	contaminants. The use of chemical-resistant gloves is recommended when handling undiluted product. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.
Respiratory Protection:	In case of inadequate ventilation or risk of inhalation of dusts or vapors, use suitable respiratory equipment such as MSHA/NIOSH TC-21C or NIOSH approved respirator with N, R, P or HE filter. Wear respiratory protection during operations where spraying or misting occurs. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory protection grotection if exposure concentrations are unknown.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	APPEARANCE :	Liquid
	ODOR:	Slight ammonia.
	ODOR THRESHOLD:	No data available.
	COLOR:	Black.
	pH:	6.9 - 7.1
	MELTING POINT / FREEZING	G POINT: No data available
	BOILING POINT:	No data available
	FLASH POINT:	>212 ^o F / 100 ^o C (Tag CC)
	FLAMMABILILITY (solid, gas):	No data available.
	UPPER / LOWER FLAMMABI	LITY OR EXPLOSIVE LIMITS: No data available.
	VAPOR PRESSURE:	No data available.
	SOLUBILITY:	Soluble
	PARTITION CO-EFFICIENT, I	n-OCTANOL / WATER: No data available.
	AUTO-IGNITION TEMPERAT	URE: No data available.
	DECOMPOSITION TEMPERA	TURE: No data available
	VISCOSITY, dynamic:	No data available
	SPECIFIC GRAVITY (Water =	: 1): 1.298 g/ml
	BULK DENSITY:	10.84 lbs./gal / 1.3 kg/L
Note:	These physical data are ty	pical 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.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

- Stable 10.2 CHEMICAL STABILITY
- Stable under normal temperature conditions
- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS
- No reactions known under normal use conditions. Will not polymerize.
- 10.4 CONDITIONS TO AVOID
- None known.
- 10.5 INCOMPATIBILE MATERIALS
- None known. 10.6 HAZARDOUS DECOMPOSITION PRODUCTS
- None known.

11. TOXICOLOGICAL INFORMATION

11.1 LIKELY ROUTES OF EXPOSURE

Eye contact, skin contact. LC₅₀ (rat) No data available LD₅₀ Oral (rat): No data available LD₅₀ 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. This product is not intended for use in aquatic settings. Ecotoxicological Data

components		Species	Test Results
Anhydrous Am Aquatic	monia (CAS: 7664-41-7)		
Crustacea	EC₅₀	Daphnia magna	2.9 mg/l un-ionized ammonia, 48 hours
	NOEC	Daphnia magna	0.163 – 0.42 mg/l un-ionized ammonia 21d-76wk
Fish	LC ₅₀	Fish, various	0.09 - 3.51 mg/l un-ionized ammonia, 96 hours
	NOEC	Fish, various	0.025 – 1.2 mg/l un-ionized ammonia 12d-5yr

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.

12.2 PERSISTENCE AND DEGRADABILITY

No data available Biodegradability:

- **12.3 BIOACCUMULATIVE POTENTIAL**
 - **Bioaccumulation:** No data available.
- **12.4 MOBILITY IN SOIL**
- No data available. **12.5 OTHER ADVERSE EFFECTS**

Assessment: No data available.

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at http://www.acrecycle.org/. 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:

- NFPA Health 1 Flammability 0 Instability 0
- Least Slight Moderate High

Fire

0

1

2

3

4

Ν

0 0 в Severe

SARA Hazard Notification/Reporting

SARA Title III Hazard Category:

Immediate Delayed

Reactive Ν

HMIS

Health

PPE

Flammability

Reactivity

Sudden Release of Pressure N



Reportable Quantity (RQ) under U.S. CERCLA: Ammonia (CAS: 7664-41-7) 100 lbs. SARA, Title III, Section 313: Ammonia (CAS: 7664-41-7) 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: Sections 2 and 3 revised

PREPARED BY: Registrations and Regulatory Affairs

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REVIEWED BY: Environmental Health and Safety

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