

SAFETY DATA SHEET

LIQUI-STIK CONCENTRATE

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: EPA REG. NO. 34704-382 TRADE NAME: LIQUI-STIK CONCENTRATE

1.2 RECOMMENDED USE: GROWTH REGULATOR FOR AGRICULTURAL OR COMMERCIAL USE ONLY

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 - Product Information: 1-888-574-2878 (LPI-CUST) U.S. Coast Guard National Response Center: 1-800-424-8802

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

Acute Toxicity – Dermal Category 4 H312
Acute Toxicity – Inhalation Category 4 H332

2.2 Label elements



Signal word: WARNING

Hazard Statement: H312 – Harmful in contact with skin.

H332 - Harmful if inhaled.

Precautionary

Statement: P280 – Wear protective gloves/protective clothing/eye protection/face protection.

(Prevention): P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 – Use only outdoors or in a well-ventilated area.

Precautionary

Statement: P302+P352 – IF ON SKIN: Wash with plenty of soap and water. (Response): P312 – Call a poison center/doctor/physician if you feel unwell.

P321 – Specific treatment (see: First Aid statements on the product label).

P362 – Take off contaminated clothing and wash it before reuse.

P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary Statement:

(Storage): Not applicable or required.

Precautionary Statement:

(Disposal): P501 - Dispose of contents/container in accordance with all local, state and federal requirements.

2.3 Other hazards

None known

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3. COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

Classification according to 29 CFR 1910.1200

 Chemical Name:
 CAS No.
 Concentration [%]

 1-Naphthaleneacetic acid, Ammonium salt *Other ingredients
 25545-89-5
 5.68

 *Other ingredients
 94.32

 Ammonia
 7664-41-7
 Trace

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

If in eyes: 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.

If on skin or clothing: Take of contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or

doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably

mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

If swallowed: 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 the poison control center or doctor. Do not give anything by mouth to an

unconscious person.

4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

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: Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide (CO₂), alcohol foam, foam,

water spray or fog.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: Oxides of carbon and other unknown materials may be formed in a fire situation.

5.3 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.

^{*}Ingredients not specifically listed are non-hazardous or are to be considered proprietary or confidential business information per 29 CFR 1910.1200(i)



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6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions: Avoid inhalation of vapors and spra

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: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below

the mean high water mark. Do not contaminate water when disposing of equipment washwaters or

rinsate.

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: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing

immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as

possible, wash thoroughly and change into clean clothing.

7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers:

Store in original container only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with vermiculite, earth, or synthetic

absorbent. Combustible. Do not store near heat or open flame.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS

U.S. Workplace Exposure Level (ACGIH) TLVs

Components	Type	Value
Ammonia	TWA	25 ppm
	STFI	35 nnm

U.S. Workplace Exposure Level (OSHA) PELs

 Components
 Type
 Value

 Ammonia
 PEL
 35 mg/m³

Biological limit values

ACGIH Biological Exposure 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: Goggles or shielded safety glasses are recommended.

Skin Protection: Long-sleeved shirt and long pants. Suitable protective gloves. Shoes plus socks.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of mists or vapors, use suitable respiratory equipment approved by MSHA/NIOSH. 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 if exposure concentrations are unknown.

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PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE:

Slight ammonia. ODOR: ODOR THRESHOLD: No data available. COLOR: Colorless to light amber.

9 - 10 (neat). pH:

MELTING POINT / FREEZING POINT: 30 °F (-1 °C) **BOILING POINT:** 214 °F (101 °C) FLASH POINT: Not applicable. FLAMMABILILITY (solid, gas): Not applicable.

UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available.

VAPOR PRESSURE: 17 mmHg @ 20 °C.

SOLUBILITY: Miscible.

PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available.

AUTO-IGNITION TEMPERATURE: No data available. DECOMPOSITION TEMPERATURE: No data available. VISCOSITY: (kinematic): No data available

SPECIFIC GRAVITY (Water = 1): 1.016 g/ml

DENSITY: 8.48 lbs./gal / 1.02 kg/L

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.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

Stable

10.2 CHEMICAL STABILITY

Stable under normal temperature conditions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No data available. Will not polymerize.

10.4 CONDITIONS TO AVOID

Avoid excessive heat.

10.5 INCOMPATIBILE MATERIALS

Strong acids. Strong bases.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Ammonia, oxides of nitrogen, and other unknown organic compounds in a fire situation. Incomplete combustion may lead to formation of carbon monoxide and/or other asphyxiants.

11 TOXICOLOGICAL INFORMATION

11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Inhalation. Skin contact. Ingestion.

LC₅₀ (male rat): >1.62 mg/L (4 HR) LD₅₀ Oral (female rat): >4,400 mg/kg LD₅₀ Dermal (rabbit): > 2,020 mg/kg Acute Toxicity Estimates: No data available. Skin Irritation (rabbit): Minimal irritant. Eye Irritation (rabbit): Minimal irritant.

Specific Target Organ Toxicity: 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

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12 ECOLOGICAL INFORMA	TION				
12.3 ECOTOXICITY The product is a plant growth regulectoricological Data	ulator. Do not contami				
		Species		Cest Results	
Ammonia		Oncorhynchus tshaw	vytscna	0.43 – 0.47 mg/L – 96-hour L	.050
Drift or runoff may adversely affer Do not apply directly to water. Do not contaminate water when on Do not apply when weather cond	disposing of equipme				
12.2 PERSISTENCE AND DEGRADA Biodegradability: No data at 12.3 BIOACCUMULATIVE POTENTI Bioaccumulation: No data at 12.4 MOBILITY IN SOIL No data available. 12.5 OTHER ADVERSE EFFECTS Assessment: No data at 12.5 OTHER ADVERSE EFFECTS	available I AL				
13 DISPOSAL CONSIDERAT	TIONS				
13.1 WASTE TREATMENT METHOD Wastes may be disposed of Offer container for recycling decontaminated containers i national recycling program. contaminate water, food or fe	on site or at an app or dispose of in a is the best option o To contact your state	sanitary landfill or l f container disposal. e and local ACRC re	by other procedures The Agricultural Co	approved by appropriate a ontainer Recycling Council (authorities. Recycling ACRC) operates the
14 TRANSPORT INFORMAT	ION				
14.3 LAND TRANSPORT DOT Shipping Description: NOT REGUL U.S. Surface Freight Classification: INI		R REGULATORS, PLANT	GROWTH (NMFC 101685	5; CLASS: 65)	
15 REGULATORY INFORMA	ATION				
15.1 SAFETY, HEALTH AND ENVIR	ONMENTAL REGUL	ATIONS			
NFPA & HMIS Hazard Ratings:	NFPA		HMIS		
	1 Health0 Flammability0 Instability	0 Least1 Slight2 Moderate3 High4 Severe	1 Health0 Flammability0 ReactivityB PPE		
SARA Hazard Notification/Reporting SARA Title III Hazard Category:	Immediate Y Delayed N	_ Fire _ Reactive	<u>N</u> S	Sudden Release of Pressure	_ <u>N</u>

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Reportable Quantity (RQ) under U.S. CERCLA: Ammonia (CAS: 7664-41-7) 100 pounds.

SARA, Title III, Section 313: Ammonia (CAS: 7664-41-7)

RCRA Waste Code: Not listed. CA Proposition 65: Not listed.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Avoid contact with eyes, skin, or clothing. May be harmful if absorbed through skin, inhaled or swallowed. Avoid breathing vapor or spray mist.

16 OTHER INFORMATION

SDS STATUS: Section 2 revised.

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

EPA REG. NO.: 34704-382

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