

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: GUNSMOKE®

1.2 RECOMMENDED USE: WATER CONDITIONING AGENT - ACIDIFIER – ACTIVATOR

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

Eye Damage/Irritation	Category 1	H318
Skin Corrosion/Irritation	Category 1B	H314
Acute Toxicity - Oral	Category 4	H302
Specific Target Organ Toxicity (Single Exposure)	Category 3	H335
Corrosive to Metals	Category 1	H290

2.2 Label elements



Signal word: DANGER
 Hazard Statement: H318 – Causes serious eye damage.
 H314 – Causes severe skin burns and eye damage.
 H302 – Harmful if swallowed.
 H335 – May cause respiratory irritation.
 H290 – May be corrosive to metals.

Precautionary Statement: P280 – Wear protective gloves/protective clothing/eye protection/face protection.
 P260 – Do not breathe dust/fume/gas/mist/vapors/spray.
 (Prevention): P264 – Wash hands and face thoroughly after handling.
 P270 – Do not eat, drink or smoke when using this product.
 P271 – Use only outdoors or in a well-ventilated area.
 P234 – Keep only in original container.

Precautionary Statement: P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
 (Response): P310 – Immediately call a POISON CENTER or doctor/physician.
 P301+P330+P331+P312 – IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
 P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P363 – Wash contaminated clothing before reuse.
 P304+P340 – IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
 P310 – Immediately call a POISON CENTER or doctor/physician.
 P390 – Absorb spillage to prevent material damage.



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Precautionary
Statement:
(Storage):

P403+P233 – Store in a well-ventilated place. Keep container tightly closed.
P405 – Store locked up.
P406 – Store in a corrosive resistant container with a resistant inner liner.

Precautionary
Statement:
(Disposal):

P501 – Dispose of contents/container in accordance with local/state/national regulations.

2.3 Other hazards

None known

3. COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

Classification according to 29 CFR 1910.1200

Chemical Name:	CAS No.	Classification	Concentration [%]
Proprietary blend of Surfactants, Solvent, Water Conditioners and Diluent	Proprietary	Metal Corr. 1; H290 Eye Dam. 1; H318	Proprietary
Monocarbamide Dihydrogen Sulfate	21351-39-3	STOT SE; 3; H335	20.0 – 40.0
n-Butyl Alcohol	71-36-3	Acute Tox, 4; H302	0.5 – 1.5
Ethanolamine	141-43-5	Skin Corr. 1B; H314	5.0 – 10.0

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

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.

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.

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.

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.

4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: No adverse symptoms or effects are anticipated under normal handling conditions. See section 2 for further information.
Inhalation: May cause respiratory irritation.
Eyes: Causes serious eye damage.
Skin: Causes severe skin burns and eye damage.
Ingestion: Harmful if swallowed.

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: Probable mucosal damage may contraindicate the use of gastric lavage. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.



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5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Dry chemical, carbon dioxide (CO₂), alcohol foam, foam, water spray or fog. 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: Combustion may yield smoke, carbon monoxide, and other products from incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed. Keep only in original container. Do not breathe mists/vapors/spray.

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.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions: Keep all sources of ignition away from spill/release. 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 mists, vapors / spray and contact with eyes, skin and clothing. Do not breathe mists 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 cool, dry place. Store in original container. Keep tightly closed. Do not reuse empty container. Product will become thicker at cold temperatures but effectiveness will not be affected. Warm product before use. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

OCCUPATIONAL EXPOSURE LIMITS

U.S. Workplace Exposure Level (ACGIH) TLVs

Components	Type	Value
n-Butanol	TWA	61 mg/m ³
Ethanolamine	TWA	7.5 mg/m ³

U.S. Workplace Exposure Level (OSHA) PELs

Components	Type	Value
n-Butanol	TWA	300 mg/m ³
Ethanolamine	TWA	6 mg/m ³

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Specimen
No listings		



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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: Coveralls worn over long-sleeved shirt and long pants. Chemical-resistant gloves. Chemical-resistant footwear plus socks.

Respiratory Protection: In case of inadequate ventilation or risk of inhalation of mists 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 if exposure concentrations are unknown.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 APPEARANCE :** Liquid
ODOR: No data available.
ODOR THRESHOLD: No data available.
COLOR: Clear to golden yellow.
pH: 2.0 – 2.5
MELTING POINT / FREEZING POINT: No data available
BOILING POINT: No data available
FLASH POINT: >200°F (>93.3°C) / SCC
FLAMMABILITY (solid, gas): No data available.
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available.
VAPOR PRESSURE: No data available.
SOLUBILITY: Soluble
PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available.
AUTO-IGNITION TEMPERATURE: No data available.
DECOMPOSITION TEMPERATURE: No data available
VISCOSITY, dynamic: No data available
SPECIFIC GRAVITY (Water = 1): 1.19 – 1.20 g/ml
BULK DENSITY: 9.93 – 10.01 lbs./gal / 1.19 – 1.2 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

Flammable hydrogen may be produced on prolonged contact with metals such as aluminum, tin, lead, and zinc.

10.2 CHEMICAL STABILITY

Stable under normal temperature and use conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Reaction with incompatible metals will release dangerous hydrogen gas. Thermal decomposition in presence of air produces oxides of carbon, nitrogen, sulfur, and phosphorous. Will not polymerize.

10.4 CONDITIONS TO AVOID

Extended exposure to high temperatures can cause decomposition. Avoid extreme heat, open flames, sparks and other ignition sources.

10.5 INCOMPATIBLE MATERIALS

Oxidizing agents, strong acids, strong bases, metals such as aluminum, tin, lead and zinc.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition in the presence of air produces oxides of carbon, nitrogen, sulfur, and phosphorous.



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11 TOXICOLOGICAL INFORMATION

11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Skin contact. Inhalation. Ingestion.

LC₅₀ (rat): No data available

LD₅₀ Oral (rat): 500 mg/kg

LD₅₀ Dermal (rat): >5,000 mg/kg

Acute Toxicity Estimates: Harmful if swallowed.

Skin Irritation (rabbit): Causes severe skin burns and eye damage.

Eye Irritation (rabbit): Causes serious eye damage.

Specific Target Organ Toxicity: Single exposure: May cause respiratory irritation.

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

12.3 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

	Species	Test Results
Product		
96-hour LC ₅₀	Oncorhynchus gorboscha	1.4 mg/L
48-hour EC ₅₀	Daphnia Magna	5.2 mg/L

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

Biodegradability: No data available

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.



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14 TRANSPORT INFORMATION

14.3 LAND TRANSPORT

DOT Shipping Description: UN1760, CORROSIVE LIQUID, N.O.S. (MONOCARBAMIDE DIHYDROGEN SULFATE), 8, II ERG GUIDE 154

U.S. Surface Freight Classification: ADHESIVES, ADJUVANTS, SPREADERS OR STICKERS (NMFC 4610; CLASS 60)

15 REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings:

NFPA

3	Health	0	Least
0	Flammability	1	Slight
0	Instability	2	Moderate
		3	High
		4	Severe

HMIS

3	Health
0	Flammability
0	Reactivity
B	PPE

SARA Hazard Notification/Reporting

SARA Title III Hazard Category:	Immediate	<u>Y</u>	Fire	<u>N</u>	Sudden Release of Pressure	<u>N</u>
	Delayed	<u>N</u>	Reactive	<u>N</u>		

Reportable Quantity (RQ) under U.S. CERCLA: n-Butyl Alcohol (CAS: 71-36-3) 5,000 lbs.

SARA, Title III, Section 313: n-Butyl Alcohol (CAS: 71-36-3)

RCRA Waste Code: U031 n-Butyl Alcohol (CAS: 71-36-3)

CA Proposition 65: Not applicable

16 OTHER INFORMATION

SDS STATUS: Section 9.1 revised.

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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CA REG. NO.: 34704-50077

WA REG. NO.: 34704-10001

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