

SAFETY DATA SHEET

AMINE 6 SDS NUMBER: 000646-17-LPI SDS REVISIONS: SEC. 1, 2 **DATE OF ISSUE: 12/12/17 SUPERSEDES: 01/12/15**

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

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT IDENTIFIER: **EPA REGISTRATION NUMBER: 34704-646**

TRADE NAME: **AMINE 6 2,4-D HERBICIDE** 1.2 RECOMMENDED USE: AGRICULTURAL HERBICIDE

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

HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200

Eye Damage/Irritation Category 1 H318 Category 4 Acute Toxicity - Oral H302 STOT - RE Category 2 H373 Aquatic Toxicity - Acute Category 2 H401 Aquatic Toxicity - Long term Category 2 H411

2.2 Label elements



DANGER Signal word:

Hazard Statement: H318 - Causes serious eye damage.

H302 - Harmful if swallowed.

H373 - May cause damage to internal organs through prolonged or repeated exposure.

H401 - Toxic to aquatic life.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary

P260 - Do not breathe dust/fume/gas/mist/vapors/spray. Statement:

(Prevention): P264 - Wash thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product. P280 – Wear protective gloves / eye protection / face protection.

P102 - Keep out of reach of children. P273 – Avoid release to the environment.

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/doctor/physician.

P301+P312: IF SWALLOWED: Call a poison center/doctor/physician if you feel unwell.

P330 - Rinse mouth.

P308+P311 - If exposed or concerned: Call a poison center/doctor/physician.

Precautionary Statement:

(Storage): P405 - Store locked up.

Precautionary Statement:

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

2.3 Other hazards

None known

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COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

Classification according to 29 CFR 1910.1200

Chemical Name: CAS No. Concentration [%] Dimethylamine salt of 2,4-D 2008-39-1 70.93

*Other ingredients 29.07 n/a

FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 If in eyes:

minutes, then continue rinsing eye. Call a poison control center or doctor for 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.

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.

4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Eyes: Causes serious eye damage.

Oral: Harmful if swallowed.

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: If in eyes, specialized ophthalmologic attention may be necessary. If swallowed probable mucosal damage may

contraindicate gastric lavage. There is no specific antidote; treat symptomatically.

^{*}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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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: Ammonia, oxides of nitrogen, chlorine-containing compounds 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.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE 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: 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: Do not store below temperature of 45° F. If frozen, warm to 90° F. and redissolve before using by

rolling or shaking the container. Store in a safe manner. Store in original container only. Store in cool, dry place. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment consistent with

good pesticide handling. 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	ı ype	value
2,4-D Acid	TLV	10 mg/m ³
Dimethylamine	TLV	9.2 mg/m ³

U.S. Workplace Exposure Level (OSHA) PELs

Components	rype	value
2,4-D Acid	TLV	10 mg/m ³
Dimethylamine	TLV	18 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:

Goggles or shielded safety glasses are recommended. Eve / Face Protection:

Skin Protection: Long-sleeved shirt and long pants. Chemical-resistant gloves, such as polyethylene or polyvinylchloride. Shoes 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-84A with NIOSH equipped N, R, or P class filter media. 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.

PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE:

ODOR: Fishy, amine-like. No data available. ODOR THRESHOLD: COLOR: Amber to nearly black.

5.3

MELTING POINT / FREEZING POINT: No data available No data available **BOILING POINT:**

FLASH POINT: Does not flash. FLAMMABILILITY (solid, gas): No data available.

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

0.00141 mmHg @ 20 °C. VAPOR PRESSURE:

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): 1.24 g/ml

DENSITY: 10.36 lbs./gal / 1.24 kg/L

These physical data are typical values based on material tested but may vary from sample to sample. Note:

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

Excessive heat and moisture.

10.5 INCOMPATIBILE MATERIALS

Strong acids.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Ammonia, oxides of nitrogen, chlorine-containing compounds and other unknown hazardous material may be formed in a fire situation. Oxides of carbon and/or other asphyxiants may be formed from incomplete combustion.

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11 TOXICOLOGICAL INFORMATION

11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Harmful if swallowed. LC₅₀ (rat): >5.28 mg/L (4 HR) LD₅₀ Oral (rat): 1,670 mg/kg LD₅₀ Dermal (rat): > 2,000 mg/kg

Acute Toxicity Estimates: No data available Skin Irritation (rabbit): not an irritant.

Eye Irritation (rabbit): Corrosive; causes irreversible eye damage. Specific Target Organ Toxicity: Skin, CNS, liver, kidneys.

Aspiration: No data available

Skin Sensitization (guinea pig): Not a sensitizer

Carcinogenicity: IARC Group 2B (limited evidence for carcinogenicity in humans).

Germ Cell Mutagenicity: No data available

Interactive Effects: None known

12 ECOLOGICAL INFORMATION

12.3 ECOTOXICITY

The product may be toxic to fish and aquatic invertebrates. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Information below is based on the technical ingredient 2,4-D acid.

Ecotoxicological Data

Species	Test Results
Rainbow trout	245 mg/L – 96-hour LC ₅₀
Bluegill	524 mg/L – 96-hour LC ₅₀
Fathead minnow	344 mg/L – 96-hour LC ₅₀
Pink shrimp	181 mg/L – 96-hour LC ₅₀
Daphnia magna	184 mg/L – 96-hour LC ₅₀
Tidewater silverside	469 mg/L –96-hour LC50
Eastern oyster	136 mg/L – 48-hour EC ₅₀
	Rainbow trout Bluegill Fathead minnow Pink shrimp Daphnia magna Tidewater silverside

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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: Biochemical oxygen demand is 0.72 for 5, 10 and 20 days. Chemical oxygen demand is 0.72. Under aerobic soil

conditions the half-life is 4 – 23 days. Under aerobic aquatic conditions, the half-life is 0.5 – 11 days.

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or log Pow < 3).

12.4 MOBILITY IN SOIL

High (50 < Koc < 150). Soil organic carbon/water partition coefficient (Koc) is 72-136.

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: Less than 16 gallons: NOT REGULATED BY DOT

DOT Shipping Description: Greater than 16 gallons: RQ UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III (2,4-D), ERG GUIDE 171

U.S. Surface Freight Classification: COMPOUND, TREE OR WEED KILLING, NOI (NMFC 50320, SUB 2: CLASS: 60)

15 REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings: NFPA HMIS

3 Health Least 3 Health Flammability Flammability 0 Slight 0 Instability 2 Moderate 0 Reactivity High 3 PPE

Severe

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: 2,4-D Acid (CAS: 94-75-7) 100 pounds.

SARA, Title III, Section 313: 2,4-D Acid (CAS: 94-75-7) 58.9% acid equivalent

RCRA Waste Code: U240; D016 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:

DANGER

Corrosive

Causes irreversible eye damage.

Harmful if swallowed.

Harmful if absorbed through skin.

Do not get in eyes or on clothing.

Avoid contact with skin.

16 OTHER INFORMATION

SDS STATUS: Sections 1 and 2 revised.

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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