



## SAFETY DATA SHEET

SDS NUMBER: 000239-17b-LPI

SDS REVISIONS: SEC. 3

DATE OF ISSUE: 12/04/17

**MEC AMINE-D®**

SUPERSEDES: 05/02/17

**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 REGISTRATION NO. 34704-239  
**TRADE NAME:** MEC AMINE-D®
- 1.2 RECOMMENDED USE:** FOR USE BY LAWN CARE AND LANDSCAPING PERSONNEL OR COMMERCIAL APPLICATORS
- 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

Acute Toxicity – Oral

Category 4

H302

#### 2.2 Label elements



Signal word:

DANGER

Hazard Statement:

H318 – Causes serious eye damage.

H302 – Harmful if swallowed.

Precautionary  
Statement:

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

(Prevention):

P264 – Wash thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

Precautionary  
Statement:

P305+P351+P338: IF IN EYES: Rinse cautiously 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+P312 – IF SWALLOWED: Call a poison center or doctor/physician if you feel unwell.

P330 – Rinse mouth.

Precautionary  
Statement:

(Storage):

Not required.

Precautionary  
Statement:

(Disposal):

P501 – dispose of contents/container in accordance with 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<br>[%] |
|----------------------------------|------------|----------------------|
| Dimethylamine salt of 2,4-D      | 2008-39-1  | 30.56                |
| Dimethylamine salt of Mecoprop-P | 32351-70-5 | 8.17                 |
| Dimethylamine salt of Dicamba    | 2300-66-5  | 2.77                 |
| *Other ingredients               |            | 58.50                |

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

### 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 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 off 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

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:** 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.

### 5. FIRE FIGHTING MEASURES

#### 5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide (CO<sub>2</sub>), 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.



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### 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: KEEP FROM FREEZING. Store in a safe manner. Store in original container only. Keep container tightly closed when not in 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                 |
|---------------|------|-----------------------|
| 2,4-D Acid    | TLV  | 10 mg/m <sup>3</sup>  |
| Dimethylamine | TLV  | 9.2 mg/m <sup>3</sup> |

##### U.S. Workplace Exposure Level (OSHA) PELs

| Components    | Type | Value                |
|---------------|------|----------------------|
| 2,4-D Acid    | TLV  | 10 mg/m <sup>3</sup> |
| Dimethylamine | TLV  | 18 mg/m <sup>3</sup> |

##### 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. 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.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1 APPEARANCE :** Liquid  
**ODOR:** Phenoxy.  
**ODOR THRESHOLD:** No data available.  
**COLOR:** Clear, light amber.  
**pH:** 6.6  
**MELTING POINT / FREEZING POINT:** No data available  
**BOILING POINT:** No data available  
**FLASH POINT:** >212 °F (>100 °C).  
**FLAMMABILITY (solid, gas):** No data available.  
**UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:** No data available.  
**VAPOR PRESSURE:** 0.021 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):** 1.13 g/ml  
**DENSITY:** 9.43 lbs./gal / 1.13 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

Excessive heat and extreme cold.

#### 10.5 INCOMPATIBLE MATERIALS

Strong oxidizers and acids.

#### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Hydrogen chloride, other chlorine-containing compounds oxides of nitrogen 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.

### 11 TOXICOLOGICAL INFORMATION

#### 11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Harmful if swallowed.

**LC<sub>50</sub> (rat):** >5.28 mg/L (4 HR)

**LD<sub>50</sub> Oral (rat):** 1,670 mg/kg

**LD<sub>50</sub> 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



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## 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                        |
|------------|----------------------|-------------------------------------|
| 2,4-D Acid | Rainbow trout        | 245 mg/L – 96-hour LC <sub>50</sub> |
|            | Bluegill             | 524 mg/L – 96-hour LC <sub>50</sub> |
|            | Fathead minnow       | 344 mg/L – 96-hour LC <sub>50</sub> |
|            | Pink shrimp          | 181 mg/L – 96-hour LC <sub>50</sub> |
|            | Daphnia magna        | 184 mg/L – 96-hour LC <sub>50</sub> |
|            | Tidewater silverside | 469 mg/L – 96-hour LC <sub>50</sub> |
|            | Eastern oyster       | 136 mg/L – 48-hour EC <sub>50</sub> |

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.

## 14 TRANSPORT INFORMATION

### 14.3 LAND TRANSPORT

DOT Shipping Description: Less than 35 gallons: NOT REGULATED BY DOT

DOT Shipping Description: Greater than 35 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

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

#### HMIS

|   |              |
|---|--------------|
| 3 | Health       |
| 0 | Flammability |
| 0 | Reactivity   |
| H | PPE          |



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### SARA Hazard Notification/Reporting

#### SARA Title III Hazard Category:

Immediate Y  
Delayed N

Fire N  
Reactive N

Sudden Release of Pressure N

**Reportable Quantity (RQ) under U.S. CERCLA:** 2,4-D Acid (CAS: 94-75-7) 100 pounds; Dicamba (CAS: 1918-00-9) 1,000 pounds

**SARA, Title III, Section 313:** 2,4-D Acid (CAS: 94-75-7) 25.38% acid equivalent; Dimethylamine Dicamba (CAS: 2300-66-5) 2.30% 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.

Do not get in eyes or on clothing.

## 16 OTHER INFORMATION

**SDS STATUS:** Section 3 revised; CAS number corrected.

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

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