SAFETY DATA SHEET

SDS NUMBER: 000930-17-LPI SDS REVISIONS: SEC. 2 **DATE OF ISSUE: 06/12/17**

CHASER® 2 AMINE

SUPERSEDES: 09/04/15

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 NO. 34704-930** 1.1

TRADE NAME: **CHASER® 2 AMINE** 1.2 RECOMMENDED USE: **GROUP 4 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 Acute Toxicity - Dermal Category 4 H312

2.2 Label elements



DANGER Signal word:

Hazard Statement: H318 - Causes serious eye damage.

H302 - Harmful if swallowed. H312 - Harmful in contact with skin. H401 - Toxic to aquatic life.

Precautionary

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

(Prevention): P264 - Wash hands thoroughly after handling.

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

Precautionary

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present Statement: (Response):

and easy to do. Continue rinsing.

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.

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

P321 - Specific treatment (see First Aid and Note to Physician on the product label).

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

Precautionary Statement:

(Storage): Note required or not applicable.

Precautionary

Statement: P501 – Dispose of contents/container in accordance with local, state and federal regulations.

2.3 Other hazards

(Disposal):

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

[%]

Dimethylamine salt of 2,4-D

Trimethylamine salt of Triclopyr

57213-69-1

Trimethylamine (contained in other ingredients)121-44-8

*Other ingredients

n/a

Concentration

[%]

34.20

Tsimethylamine (contained in other ingredients)121-44-8

*Other ingredients

50.60

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 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

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unconscious person.

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. Skin: Harmful in contact with skin.

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 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: 2,4-D amine salt, Trimethylamine salts of Triclopyr, oxides of nitrogen, hydrogen chloride, and

oxides of carbon may be released.

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

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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:

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate. Triclopyr has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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 above 28 °F or agitate 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

 2,4-D Acid
 TLV
 10 mg/m²

U.S. Workplace Exposure Level (OSHA) PELs

 Components
 Type
 Value

 2,4-D Acid
 TLV
 10 mg/m³

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: 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

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protection if exposure concentrations are unknown.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE: Liquid ODOR: Amine.

ODOR THRESHOLD: No data available.

COLOR: Amber. pH: 7 - 8

MELTING POINT / FREEZING POINT: No data available

BOILING POINT: 178 °F / 81.1 °C FLASH POINT: Does not flash. FLAMMABILILITY (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: No data available. SPECIFIC GRAVITY (Water = 1): 1.16 g/ml

DENSITY: 9.68 lbs./gal / 1.16 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. Do not store near heat or flame.

10.5 INCOMPATIBILE MATERIALS

Strong oxidizing agents, bases and acids.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

2,4-D amine salts, trimethylamine salts of Triclopyr, oxides of nitrogen, hydrogen chloride, and oxides of carbon may be released.

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11 TOXICOLOGICAL INFORMATION

11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Ingestion. Skin contact. LC₅₀ (rat): > 2.0 mg/L (4 HR) LD₅₀ Oral (rat): 1,660 mg/kg LD₅₀ Dermal (rat): 1,818 mg/kg

Acute Toxicity Estimates: No data available Skin Irritation (rabbit): No data available.

Eye Irritation (rabbit): Corrosive; causes irreversible eye damage.

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

12 ECOLOGICAL INFORMATION

12.3 ECOTOXICITY

The product is toxic to fish and aquatic invertebrates. Information below is based on the technical ingredient 2,4-D acid.

Ecotoxicological Data

| 3 | Species | Test Results | |
|------------|----------------------|-------------------------------------|--|
| 2,4-D Acid | Rainbow trout | 245 mg/L – 96-hour LC50 | |
| | Bluegill | 524 mg/L − 96-hour LC50 | |
| | 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 | |

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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

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.

REVIEWED BY: Environmental Health and Safety

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14 TRANSPORT INFORMATION

14.3 LAND TRANSPORT

DOT Shipping Description: 30 GALLONS AND LESS: NOT REGULATED BY DOT

DOT Shipping Description: GREATER THAN 30 GALLONS: RQ UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III (2,4-D), ERG GUIDE 171

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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

Health
Flammability
Slight
Flammability
Moderate
Reactivity
Health
Flammability
Reactivity
Health
Flammability
Reactivity
Health
Flammability
Reactivity
Health
Healt

High H Severe

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate Y Fire N Sudden Release of Pressure N Pelayed Y 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)

RCRA Waste Code: U240 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 absorbed through skin.

Harmful if swallowed.

Do not get in eyes, on skin, or on clothing.

16 OTHER INFORMATION

SDS STATUS: Section 2 revised.

PREPARED BY: Registrations and Regulatory Affairs

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safely use the product described by this data sheet for their specific purpose.