



## SAFETY DATA SHEET

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 05/14/2020

**METRIBUZIN 4L**  
SUPERSEDES: 01/21/2008

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

**Product Name** METRIBUZIN 4L

**Other means of identification**

**Product Code** PST-00122

**Synonyms** None

**Registration Number(s)** 34704-990

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Herbicide.

**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

**Manufacturer Address**

LOVELAND PRODUCTS, INC.

P.O. Box 1286

Greeley, CO 80632-1286

**Emergency telephone number**

**Company Phone Number** 1-888-LPI-CUST (574-2878)

**Emergency Telephone** Chemtrec 1-800-424-9300

Medical Emergencies: 1-866-944-8565

US regulations require reporting spills of this material that could reach any surface waters.

The toll-free phone number for the US Coast Guard National Response Center is

1-800-424-8802

### 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|   |                     |
|---|---------------------|
| Acute toxicity - Oral                     | Category 4 - (H302) |
| Acute toxicity - Dermal                   | Category 4 - (H312) |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 - (H332) |

**Label elements**



**Signal word**

**WARNING**

**Precautionary Statements - Prevention**

P264 - Wash face, hands and any exposed skin thoroughly after handling

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

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray



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P271 - Use only outdoors or in a well-ventilated area

### Precautionary Statements - Response

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell  
P330 - Rinse mouth  
P363 - Wash contaminated clothing before reuse

### Precautionary Statements - Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Not applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

| Chemical Name                  | CAS No     | Weight-% | GHS Classification  | Trade Secret |
|--------------------------------|------------|----------|---|--------------|
| Metribuzin Technical Herbicide | 21087-64-9 | 30 - 60  | Acute Tox. 4 (H302)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.  
OSHA Hazard Communication 29 CFR 1910.1200



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### 4. FIRST AID MEASURES

#### Description of first aid measures

|   |  |
|---|--|
| <b>General advice</b>                     | Get medical attention if symptoms occur.   |
| <b>Eye contact</b>                        | Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. |
| <b>Skin contact</b>                       | 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.  |
| <b>Inhalation</b>                         | Remove 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.   |
| <b>Ingestion</b>                          | Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.               |
| <b>Self-protection of the first aider</b> | Use personal protective equipment as required.   |

#### Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

#### Indication of any immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically. Symptoms may be delayed. Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also call 1-866-944-8565 for emergency medical treatment information.

**Note to physicians** No specific antidote. Treat symptomatically.

**Antidotes** No data available

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire, Use CO<sub>2</sub>, dry chemical, or foam

#### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

#### Protective equipment and precautions 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

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### Environmental precautions

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Cover liquid spill with sand, earth or other non-combustible absorbent material. Use personal protective equipment as required. Dam up. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

**Incompatible materials** Alkaline materials. Aldehydes. Ketones.



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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

Exposure Guidelines

Appropriate engineering controls

**Engineering Controls**                      Showers  
   Eyewash stations  
   Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection**                      Tight sealing safety goggles. Face protection shield.

**Skin and body protection**                Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory protection**                    Dependent on job function. If vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved air-purifying respirator with any cartridges/filters approved for pesticides. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection Standard. Wear a supplied air respirator if exposure concentrations are unknown.

**General Hygiene Considerations**        When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

|                |                   |
|----------------|-------------------|
| Physical state | Liquid Suspension |
| Appearance     | Suspension        |
| Color          | White             |
| Odor           | Slight            |
| Odor threshold | No data available |

| <u>Property</u>                | <u>Values (Remarks - Method)</u> |
|--------------------------------|----------------------------------|
| pH                             | 7.1 (1% solution)                |
| Melting point / freezing point | No data available                |
| Boiling point                  | > 100 °C / > 212 °F              |
| Flash point                    | > 100 °C / > 212 °F              |
| Evaporation rate               | No data available                |
| Flammability (solid, gas)      | No data available                |
| Flammability Limit in Air      |                                  |
| Upper flammability limit:      | No data available                |
| Lower flammability limit:      | No data available                |
| Vapor pressure                 | No data available                |
| Vapor density                  | No data available                |
| Specific Gravity               | 1.16 g/ml                        |
| Water solubility               | Miscible                         |
| Solubility in other solvents   | No data available                |
| Partition coefficient          | No data available                |
| Autoignition temperature       | No data available                |
| Decomposition temperature      | No data available                |
| Kinematic viscosity            | No data available                |
| Dynamic viscosity              | No data available                |
| Explosive properties           | No data available                |
| Oxidizing properties           | No data available                |

#### Other Information

|                 |                   |
|-----------------|-------------------|
| VOC Content (%) | No data available |
| Density         | 9.7lbs/gal        |

**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.



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**10. STABILITY AND REACTIVITY**

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Extremes of temperature and direct sunlight.

**Incompatible materials**

Alkaline materials. Aldehydes. Ketones.

**Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Amines. Sulfur oxides. Carbon oxides. Mercaptans.

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity of the formulated product:**

Oral LD<sub>50</sub> 1,865 mg/kg male rat

Dermal LD<sub>50</sub> > 2,000 mg/kg (rat)

Inhalation (Dust) LC<sub>50</sub> 3.055 mg/l (rat, 4 hr)

Skin corrosion/irritation Slight irritant.

Serious eye damage/eye irritation Slight irritant.

| Chemical Name                  | Oral LD <sub>50</sub>                     | Dermal LD <sub>50</sub>                                    | Inhalation LC <sub>50</sub>         |
|--------------------------------|---|--|-------------------------------------|
| Metribuzin Technical Herbicide | = 2020 mg/kg ( Rat ) = 1100 mg/kg ( Rat ) | > 5000 mg/kg ( Rat ) = 2 g/kg ( Rat ) > 20 g/kg ( Rabbit ) | > 860 mg/m <sup>3</sup> ( Rat ) 4 h |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Chronic toxicity Avoid repeated exposure. May cause adverse liver effects.

Target Organ Effects Central nervous system, Eye damage/irritation, kidney, liver, Respiratory system, Skin, Thyroid.

Aspiration hazard No information available.

**Information on likely routes of exposure**

Product Information No data available

Inhalation No data available.

Eye contact No data available.

Skin contact No data available.

Ingestion No data available.



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### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects**

No information available

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Disposal of wastes**

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.

**Contaminated packaging**

Do not reuse container.

### 14. TRANSPORT INFORMATION

**DOT**

**UN/ID no**

Not regulated

**Proper shipping name**

Not regulated

**U.S. Surface Freight Classification:**

COMPOUND, TREE OR WEED KILLING, NOI (NMFC 50320, SUB 2: CLASS: 60)





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### 15. REGULATORY INFORMATION

|             |                  |                |                    |                                    |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <u>NFPA</u> | Health hazards 2 | Flammability 1 | Instability 0      | Physical and Chemical Properties - |
| <u>HMIS</u> | Health hazards 2 | Flammability 1 | Physical hazards 0 | Personal protection X              |
|             | 0 - Least        | 1 - Slight     | 2 - Moderate       | 3 - High                           |
|             |                  |                |                    | 4 - Severe                         |

#### US Federal Regulations

##### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name                               | SARA 313 - Threshold Values % |
|---|-------------------------------|
| Metribuzin Technical Herbicide - 21087-64-9 | 1.0                           |

##### **SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| Chronic Health Hazard             | No  |
| Fire hazard                       | No  |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

##### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

##### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### US State Regulations

##### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

##### **U.S. EPA Label Information**

**EPA Registration Number** 34704-990

##### **EPA Statement**

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

##### **Difference between SDS and EPA Pesticide label**

Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin, or clothing.



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### 16. OTHER INFORMATION

**Prepared By** Product Stewardship and Regulatory Affairs

**Reviewed By** Safety, Health and Environment

**Issue Date** 05/14/2020

**Revision Date** 05/14/2020

**Revision Note**

All SDS sections updated

**METRIBUZIN 4L** is a trademark of Loveland Products, Inc.

**Disclaimer**

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**End of Safety Data Sheet**