

**SAFETY DATA SHEET**

SDS NUMBER: 001092-15-LPI

SDS REVISIONS: NEW

DATE OF ISSUE: 05/29/15

**DOUBLE CHECK™ HERBICIDE**

SUPERSEDES: NEW

**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:** DOUBLE CHECK™ HERBICIDE**1.2 RECOMMENDED USE:** GROUP 1 HERBICIDE FOR SELECTIVE POSTEMERGENCE CONTROL OF MANY GRASS SPECIES**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**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 irritation      | Category 2A | H319 |
| Skin irritation     | Category 2  | H315 |
| Oral acute toxicity | Category 4  | H302 |

**2.2 Label elements**

Signal word:

WARNING

Hazard Statement:

H319 – Causes serious eye irritation.  
 H315 – Causes skin irritation  
 H302 – Harmful if swallowed.

Precautionary Statement:

P262 – Do not get in eyes, on skin, or on clothing.  
 P264 - Wash thoroughly after handling.  
 (Prevention): P271 – Use only outdoors or in a well-ventilated area.  
 P273 – Avoid release to the environment.  
 P280 – Wear protective gloves / eye protection / face protection.  
 P102 – Keep out of reach of children.

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):

P101 – If medical advice is needed, have the product container or label at hand.  
 P363 – Wash contaminated clothing before reuse.  
 P391 – Collect spillage.

Precautionary Statement:

(Storage):

P412+P233 – Store at temperatures not exceeding 37.8°C / 100°F. Keep container tightly closed.  
 P210 – Keep away from heat / sparks / open flames / hot surfaces – No smoking.

**2.3 Other hazards**

None known

**KEEP OUT OF REACH OF CHILDREN –**

Appearance and odor: Yellowish liquid with aromatic odor.

**Potential Health effects****Routes of exposure** Eye contact. Ingestion.**Eyes** Causes serious eye damage.**Skin** Skin irritant.**Inhalation** No data available.**Ingestion** Harmful if swallowed.**Target organs**

Eyes. Ingestion.

**Signs and symptoms**

Causes serious eye irritation.

**Potential environmental effects**

This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have harmful or damaging effect on the environment.

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**3. COMPOSITION, INFORMATION ON INGREDIENTS**

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**3.1 Substances****3.2 Mixtures****Classification according to 29 CFR 1910.1200**

| Chemical Name:     | CAS No.    | Classification                           | Concentration [%] |
|--------------------|------------|--|-------------------|
| Fenoxaprop-P-ethyl | 71283-80-2 | Eye irrit. 2A; H319<br>Oral tox. 4; H302 | 11.53             |
| Naphthalene        | 91-20-3    | Skin irrit.; 2; H315                     | 7.37              |
| *Other ingredients | n/a        |  | 81.10             |

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

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**4. FIRST AID MEASURES**

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**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 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 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 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 irritation.  
Skin: Causes skin irritation.  
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**

Have the product container or label with you when seeking medical attention.

**NOTES TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. May pose an aspiration hazard. 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**

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**5.1 EXTINGUISHING MEDIA:**

Suitable Extinguishing Media: Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, foam, or water spray.

**5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:**

Specific Hazards During Firefighting: Oxides of nitrogen, carbon monoxide, oxides of sulfur, 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: This pesticide is toxic to fish and aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates or non-target plants. 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 container tightly closed when not in use. Avoid cross contamination with other pesticides. Do not store over 100°F or below 32°F. Do not use or store near heat or open flame. 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  |
|-------------|------|--------|
| Naphthalene | TWA  | 10 ppm |
| Naphthalene | STEL | 15 ppm |

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

| Components  | Type    | Value  |
|-------------|---------|--------|
| Naphthalene | TWA Z1  | 10 ppm |
| Naphthalene | TWA Z1A | 10 ppm |

**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: Coveralls worn over short-sleeved shirt and short pants. Chemical-resistant footwear plus socks. . Chemical-resistant gloves, such as polyethylene or polyvinylchloride.

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

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**9.1 APPEARANCE :** Liquid  
**ODOR:** Aromatic.  
**ODOR THRESHOLD:** No data available.  
**COLOR:** Yellowish.  
**pH:** 6.7 (1% emulsion in water)  
**MELTING POINT / FREEZING POINT:** No data available  
**BOILING POINT:** No data available  
**FLASH POINT:** Does not flash.  
**FLAMMABILITY (solid, gas):** No data available.  
**UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:** No data available.  
**VAPOR PRESSURE:** No data available.  
**SOLUBILITY:** Emulsifiable.  
**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):** 1.03 g/ml  
**BULK DENSITY:** 8.60 lbs./gal / 1.03 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.

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## 10. STABILITY AND REACTIVITY

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### 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

Freezing. Heat, flames and sparks.

### 10.5 INCOMPATIBLE MATERIALS

No data available.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of nitrogen, carbon monoxide, oxides of sulfur, chlorine-containing compounds and other unknown materials may be formed in a fire situation.

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## 11 TOXICOLOGICAL INFORMATION

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### 11.3 LIKELY ROUTES OF EXPOSURE

Eye contact. Skin. Harmful if swallowed.

**LC<sub>50</sub> (rat):** >5.40 mg/L (4 HR)

**LD<sub>50</sub> Oral (rat):** 3,254 mg/kg (similar product).

**LD<sub>50</sub> Dermal (rat):** > 5,000 mg/kg (similar product).

**Acute Toxicity Estimates:** No data available

**Skin Irritation (rabbit):** Severe irritant.

**Eye Irritation (rabbit):** Causes severe eye irritation.

**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**

|                    | <b>Species</b> | <b>Test Results</b>                 |
|--------------------|----------------|-------------------------------------|
| Fenoxaprop-P-ethyl | Rainbow trout  | 1.9 mg/L – 96-hour LC <sub>50</sub> |
|                    | Bluegill       | 1.9 mg/L – 96-hour LC <sub>50</sub> |
|                    | Daphnia magna  | 4.2 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: 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.

**14 TRANSPORT INFORMATION****14.3 LAND TRANSPORT**

DOT Shipping Description: Less than 119 gallons: NOT REGULATED BY DOT

DOT Shipping Description: Greater than 119 gallons: RQ UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III (NAPHTHALENE), 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

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

**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> |                            |          |

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Reportable Quantity (RQ) under U.S. CERCLA: Naphthalene (CAS: 91-20-3) 100 pounds.

SARA, Title III, Section 313: Naphthalene (CAS: 91-20-3) 0.1%

RCRA Waste Code: U165

CA Proposition 65: **WARNING:** This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

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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:

## WARNING

Causes substantial but temporary eye injury.

Causes skin irritation.

Harmful if swallowed.

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

Wash thoroughly with soap and water after handling.

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## 16 OTHER INFORMATION

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**SDS STATUS:** New.

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

**EPA REG. NO.:** 34704-1092

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