MATERIAL SAFETY DATA SHEET

LINURON 400L PCP# 15544

IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-

561-8273 or CHEMTREC 1-800-424-9300

MANUFACTURED FOR: 24-Hour Emergency Phone: 1-900-561-9273 LOVELAND PRODUCTS CANADA, INC. 24-Hour Emergency Phone: 1-900-561-9273 Ya9 Donnybrook Drive • Dorchester, Ontario NOL 1G5 Additional Emergency Phone (Canutec): 1-613-996-6666 (Collect) CHEMICAL, IDENTITY: Linuron: 3-(3,4-Dichorophenyl)-1-methoxy-1-methylurea PRODUCT USE: Herbicide – Group 7 PRODUCT USE: Herbicide – Group 7 PRODUCT USE: Herbicide – Group 7 PRODUCT USE: MSDS Revisions: Sections 1, 4 Date of Issue: 09/12/12 Supersedes: 02/26/10 2. HAZARDS IDENTIFICATION SUMMARY KEEP OUT OF REACH OF CHILDREN – CAUTION – Harmful if swallowed or absorbed through the skin. Avoid contact with eyes, skin or clothing, and wash before reuse. Wash thoroughly with scap and water after handling. Primary routes of entry are Inhalation, eye contact and skin contact. This product is a tan-coloured liquid with no odour. 37.00 (400 gL) 330-65-2 not established Linuron 37.00 (400 gL) 330-65-2 not established not established Inert Ingredients 63.00 300-65-2 not established 140 use to rothorouse. Call a poison control center or doctor for treatment advice. 41 esses: His wallowed: Call a poison control center or doctor. Do not induce vomiting unless told to do so								
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STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

For small spills, absorb with an absorbent material such as pet litter. Sweep up and transfer to containers for possible land application according to label use or for proper disposal. Check local or provincial regulations for proper disposal. Flush the area with water to remove any residue. CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

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 after handling this product. Wash the outside of
STORAGE:	gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Store in a cool, dry place. Keep pesticide in original container. Not for use or storage in or around the home. Do not store diluted spray. Do not store near heat or open flame. Do not contaminate water, food, or feed by storage or disposal.

MATERIAL SAFETY DATA SHEET

LINURON 400L PCP# 15544

Personal Protective Equipment: Mixers and Loaders must wear: coveralls over long sleeved shirt and long pants, chemical-resistant footwear, chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or neoprene, chemical resistant apron. Applicators and other handlers must wear: long sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, such as barrier laminate, butyl rubber, such as barrier laminate, butyl rubber, nitrile rubber or neoprene, and shoes plus socks. Follow manufacturer's instructions for cleaning and maintaining PPE. If no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:	Not normally required.
RESPIRATORY PROTECTION:	Not normally required, if vapors or mists exceed acceptable levels, wear a NIOSH approved pesticide respirator.
EYE PROTECTION:	Chemical goggles or shielded safety glasses.
SKIN PROTECTION:	Wear protective clothing: long-sleeved shirts and pants, shoes with socks. Wear chemical-resistant gloves.

OSHA PEL 8 hr TWA Not listed ACGIH TLV-TWA Not listed

9. PHYSICAL AND CHEMICAL PROPERTIES

 APPEARANCE AND ODOUR: Tan-coloured liquid with no odour.

 SPECIFIC GRAVITY (Water = 1): 1.15 g/ml
 BULK DENSITY: 1.15 kg/L

 VAPOUR PRESSURE: Not established
 BOILING POINT: 103°C (217.4°F) (similar product)

 PERCENT VOLATILE (by volume): Not established
 EVAPORATION RATE: Not established

 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.

SOLUBILITY: Disperses pH: 6-9

10. STABILITY AND REACTIVITY

STABILITY: Stable CONDITIONS TO AVOID: None known. INCOMPATIBILITY: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may release toxic and/or hazardous gases.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat): 3600 mg/kg (based on a similar product) Eye Irritation (rabbit): Mild irritation (similar product) Inhalation LC₅₀ (male rat): >5.1 mg/L (4 hr) (based on a similar product). Carcinogenic Potential: None listed. Acute Dermal LD₅₀ (rabbit) : > 2000 mg/kg (similar product) Skin Irritation (rabbit): Not an irritant (based on a similar product) Skin Sensitization (Guinea Pig): Not a sensitizer (similar product).

12. ECOLOGICAL INFORMATION

Linuron 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. Do not contaminate water when disposing of equipment wash waters or rinsate. Linuron is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this material where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Linuron may contaminate surface water through spray drift or under certain conditions from surface runoff into adjacent surface water bodies (ponds, lakes, streams, etc.).

13. DISPOSAL CONSIDERATIONS

Do not reuse containers for any purpose. Container is recyclable, and is to be disposed of at a container collection site. Contact your local dealer/distributor for the location of the nearest collection site. Before taking container to the collection site: Triple or pressure-rinse the empty container, adding the rinsate to the spray tank. Make the empty container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Do not contaminate water, food, or feed by storage or disposal.

14. TRANSPORT INFORMATION

DOT/TDG Shipping Description: NOT REGULATED FOR SURFACE TRANSPORTATION **U.S. Surface Freight Classification:** COMPOUND, TREE OR WEED KILLING, NOI (NMFC 50320; SUB 2: CLASS: 60)

Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

MATERIAL SAFETY DATA SHEET

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:	NFPA		HMIS
	2 Health0 Flammability0 Instability	0 Least 1 Slight 2 Moderate 3 High 4 Severe	 Health Flammability Reactivity PPE
SARA Hazard Notification/Reporting SARA Title III Hazard Category:	Immediate Y Delayed Y	Fire Reactive	<u>N</u> Sudden Release of Pressure <u>N</u>

Reportable Quantity (RQ) under U.S. CERCLA: Not listed SARA, Title III, Section 313: Linuron (CAS: 330-55-2) RCRA Waste Code: Not listed CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

16. OTHER INFORMATION

MSDS STATUS: Sections 1 and 4 revised **PREPARED BY:** Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

Disclaimer and Limitation of Liability: This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS CANADA, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.