MATERIAL SAFETY DATA SHEET

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

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FORMULATED FOR:

LOVELAND PRODUCTS CANADA, INC.

24-Hour Emergency Phone: 1-800-561-8273

789 Donnybrook Drive • Dorchester, Ontario NoL 1G5

Additional Emergency Phone (Canutec): 1-613-996-6666 (Collect)

CHEMICAL IDENTITY: N-Decanol: C-10 Fatty Alcohol PRODUCT USE: N-Decaco Sucker Control Agent

PCP REG. NO.: 12849

MSDS Number: 12849-12-LPI MSDS Revisions: Section 1 Date of Issue: 09/13/12 Supersedes: 01/07/11

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – CAUTION – May cause eye, skin, and respiratory tract irritation. Avoid inhalation of spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not contaminate water used for irrigation, domestic or spray purposes.

This product is clear liquid with mild odour.

Warning Statements:

NOTE TO PHYSICIAN: There is no specific antidote; treat symptomatically.

3. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients:	Percentage by Weight:	CAS No.	TLV (Units)
N-Decanol	688 g/L	112-30-1	not listed

4. FIRST AID MEASURES

If in eyes: Hold eye open and rinse slowly and gently with water 15-20 minutes. Remove contact lenses, if present, after the first 5

minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Call a poison control centre 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 by

mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have a person sip a glass of water if able to do so. Do

not induce vomiting unless told to do so by the poison control centre or doctor. Do not give anything by mouth to an

unconscious person.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-561-8273. Have the product label or container with you when calling a poison control centre or doctor, or going for treatment.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): $> 200^{\circ}F / > 93.3^{\circ}C$ (PMCC).

FLAMMABLE LIMITS (LFL & UFL): Not established.

EXTINGUISHING MEDIA: Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon and other unknown hazardous materials may be formed in a fire situation.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with full protective clothing. Fight fire from upwind and keep

all non-essential personnel out of area of intense smoke.

UNUSUAL FIRE AND EXPLOSION HAZARDS: If water is used to fight fire and/or cool containers, contain runoff, using dikes to prevent

contamination of water supplies.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Contain spill and absorb with suitable absorbent, sweep up material and transfer to containers for possible land application according to label use or for proper disposal. Wash spill area with water containing strong detergent, absorb and sweep up as above. Check local, state and federal regulations for proper disposal.

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 immediately after handling this product. Wash the

outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE: Store in original container only. Store away from children, domestic animals, food, feed, and water supplies. Keep container

tightly closed when not in use. Do not contaminate water, food or feed by storage or disposal.

Personal Protective Equipment: Applicators and other handlers must wear: long sleeved shirt and long pants, waterproof gloves, shoes plus socks, and protective eyewear. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. After each day of use, clothing or PPE must not be reused until it has been cleaned. For containers over 1 gallon and less than 5 gallons in capacity: Mixers and loaders who do not use a mechanical system (probe and pump) to transfer the product must wear coveralls or a chemical-resistant apron in addition to other required PPE.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: When handlers use enclosed cabs, or aircraft in a manner that meets the requirements listed in the worker Protection

Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be

reduced or modified as specified in the WPS.

RESPIRATORY PROTECTION: Not normally required; if vapors or mists become excessive, wear a NIOSH approved pesticide respirator with

cartridges for pesticide vapors.

EYE PROTECTION: Chemical goggles or shielded safety glasses.

SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, chemical-resistant footwear and socks. Wear rubber or

chemical-resistant gloves.

OSHA PEL 8 hr TWA ACGIH TLV-TWA

N-Decanol not listed not listed

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear liquid with mild odour SPECIFIC GRAVITY (Water = 1): 0.869 g/ml @ 20°C BULK DENSITY: 0.87 kg/L. SOLUBILITY: Emulsifies pH: Not established

VAPOR PRESSURE: 0.02 mm Hg @ 21⁸C (1-Decanol)

PERCENT VOLATILE (by volume): Not established

BOILING POINT: > 400⁸F / > 204.4⁹C (1-Decanol)

EVAPORATION RATE (Butyl Acetate = 1): 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.

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Extreme heat or flame. **INCOMPATIBILITY:** Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and other unknown hazardous materials may be formed in a fire situation.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD50 (rat): Practically non-toxicAcute Dermal LD50 (rabbit): 3560 mg/kg (1-Decanol)Eye Irritation (rabbit): Severe irritant (1-Decanol)Skin Irritation (rabbit): Slight irritant

Inhalation LC50 (rat): Not established Skin Sensitization (guinea pig): Not a sensitizer

Carcinogenic Potential: Note: this product contains trace amounts of Ethylene Oxide (CAS: 75-21-8). IARC lists EO as IARC-1: Carcinogenic to Humans; NIOSH lists EO as NIOSH-Ca: Potential occupational carcinogen, with no further categorization. NTP lists EO as NTP-K: Known To Be A Human Carcinogen. OSHA lists EO as OSHA-Ca: Carcinogen defined with no further categorization. ACGIH lists EO as TLV-A2: Suspected Human Carcinogen.

12. ECOLOGICAL INFORMATION

This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and non-target plants. For terrestrial uses, 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 water. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from target area.

13. DISPOSAL CONSIDERATIONS

Do not reuse containers for any purpose. Refillable Container: For disposal, the container may be returned to the point of purchase (dealer/distributor). It must be refilled by the dealer/distributor with the same product. 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

TDG Shipping Description: NOT REGULATED

DOT Shipping Description: NOT REGULATED BY USDOT

U.S. Surface Freight Classification: ADHESIVES, ADJUVANTS, SPREADERS OR STICKERS (NMFC 4610, CLASS 60)

IMDG: NOT REGULATED

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings: NFPA

2 Health 0 Health Least Flammability Slight Flammability Instability 2 Moderate 0 Reactivity 3 C PPE

HMIS

3 High4 Severe

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate Y Fire N Sudden Release of Pressure N Delayed N Reactive N

Reportable Quantity (RQ) under U.S. CERCLA: Not listed

SARA, Title III, Section 313: Not listed RCRA Waste Code: Not listed CA Proposition 65: Not listed

16. OTHER INFORMATION

MSDS STATUS: Section 1 revised

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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