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

CHEMICAL PRODUCT AND COMPANY INFORMATION

MANUFACTURED FOR:

LOVELAND PRODUCTS CANADA, INC. 24-Hour Emergency Phone: 1-800-561-8273

789 Donnybrook Drive • Dorchester, Ontario N0L 1G5 Additional Emergency Phone (Canutec): 1-613-996-6666 (Collect)

CHEMICAL IDENTITY: Trifluralin: α , α , α -trifluoro-2, 6-dinitro-N, N-dipropyl-p-toluidine

PRODUCT USE: Herbicide - Group 3

PCP REG. NO.: 28289

SDS Number: 28289-15-LPI SDS Revisions: Section 1 Date of Issue: 09/12/15 **Supersedes:** 09/12/12

HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN - WARNING - POISON - Causes moderate eye injury. Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Avoid contact with eyes, skin or clothing.

NOTE TO PHYSICIAN: BONANZA 480 contains naphthalene, which has been determined to be a possible human carcinogen (Group 2B). Trifluralin is not anticipated to be a carcinogenic risk to humans. Pre-existing skin disorders may be aggravated by exposure.

This product is a clear, deep orange liquid with aromatic odour.

COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients:	Percentage by Weight:	CAS No.	TLV (Units)
Trifluralin Inert Ingredients, including	43.00 / 480 g/L 57.00	1582-09-8	none established
Naphthalene		91-20-3	50 mg/m ³

FIRST AID MEASURES

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow.

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

unconscious person.

If in eves: Hold eve 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 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 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.

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

center or doctor, or going for treatment.

FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): >210°F / >98°C (PMCC)

FLAMMABLE LIMITS (LFL & UFL): LFL: 1.8%; UFL: 11.8% (Based on the solvent)

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

May emit toxic fumes. Wear self-contained breathing apparatus and full protective gear. **HAZARDOUS COMBUSTION PRODUCTS:**

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.

UNUSUAL FIRE AND EXPLOSION HAZARDS: If water is used to fight fire, contain runoff, using dikes to prevent contamination of water supplies.

Do not allow water runoff to enter nearby streams, ponds or lakes. Keep containers cool with water

spray to avoid possible explosion due to internal pressure buildup.

ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

In case of leak or spill, contain by absorbing spilled liquid with clay or other absorbent material; scoop or sweep up material and place in a container for possible land application according to label use or for proper disposal. Wash the spill area with water containing a strong detergent. Check local, state and federal regulations for proper disposal.

CAUTION: Keep spills and cleaning runoff from flowing onto adjacent land, or into municipal sewers and open bodies of water.

SOLUBILITY: Emulsifies

pH: 5.8 – 6.5 (1% solution)

7. HANDLING AND STORAGE

HANDLING: Wash hands after handling, and 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. See section 8 for PPE. Keep away from children.

STORAGE: Avoid freezing. Do not store below 40°F/4.5°C. Store in a safe manner. Store in original container only. Keep container

tightly closed when not in use. Do not use or store near heat or open flame. 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, chemical resistant gloves such as barrier laminate or Viton® 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: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with requirements listed in the

Worker Protection Standard (WPS) for agricultural pesticides [40CFR 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 exceed acceptable levels, wear a MSHA/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, hat, rubber boots with socks. Wear rubber or chemical-

resistant gloves.

OSHA PEL 8 hr TWA ACGIH TLV-TWA

Naphthalene 50 mg/m³ 52 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOUR: Clear, deep orange liquid with aromatic odour.

SPECIFIC GRAVITY (Water = 1): 1.12 g/ml BULK DENSITY: 1.12 kg/L

VAPOUR PRESSURE: <1 mm Hg @ 68°F/20°C **BOILING POINT**: (solvent) 450 - 527°F (232 - 275°C)

PERCENT VOLATILE (by volume): Not established

Note: These physical data are typical values based on material tested but may vary from sample to sample

lote: 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: Excessive heat and avoid freezing.

INCOMPATIBILITY: Strong oxidizers..

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen and carbon, fluorinated compounds, and/or other asphyxiants and unknown hazardous

materials may be formed in a fire situation.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (rat):3738 mg/kgAcute Dermal LD₅₀ (rabbit):>5000 mg/kgEye Irritation (rabbit):Causes moderate eye injurySkin Irritation (rabbit):Causes slight irritation

Inhalation LC₅₀ (male rat): >5.59 mg/L (4 HR).

Skin Sensitization (Guinea Pig): Sensitizer

Carcinogenic Potential: Carcinogenic Potential: Naphthalene has been determined to be a possible human carcinogen (Group 2B) by IARC; not

classifiable as a human carcinogen by ACGIH; and possible human carcinogen with further research needed by US EPA.

12. ECOLOGICAL INFORMATION

This pesticide is extremely toxic to freshwater marine and estuarine fish and aquatic invertebrates including shrimp and oyster. 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 apply in a manner that will directly expose canals, lakes streams, ponds, marshes or estuaries to aerial drift. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favor drift from target area.

13. DISPOSAL CONSIDERATIONS

Do not reuse containers for any purpose. This product is acutely hazardous. 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 (Packages will bear USDOT markings and labels)

DOT/TDG Shipping Description: RQ ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, UN3082, III (TRIFLURALIN) ERG GUIDE

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U.S. Surface Freight Classification: COMPOUND, TREE OR WEED KILLING, NOI (NMFC 50320, SUB 2: CLASS 60)

IMDG Shipping Description: NOT REGULATED (Packages will bear USDOT markings and labels)

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings: NFPA HMIS

2 Health 0 Least 2 Health 1 Flammability 1 Slight 1 Flammability 1 Instability 2 Moderate 1 Reactivity 3 High I PPE

4 Severe

SARA Hazard Notification/Reporting

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

Reportable Quantity (RQ) under U.S. CERCLA: Trifluralin (CAS: 1582-09-8) 10 lbs.

SARA, Title III, Section 313: Trifluralin (CAS: 1582-09-8) 43.0% [TRI Threshold 100 lbs.]; Naphthalene (CAS: 91-20-3) 7.0%

RCRA Waste Code: Not listed CA Proposition 65: Not applicable.

16. OTHER INFORMATION

SDS STATUS: Section 1 revised

PREPARED BY: Registrations and Regulatory Affairs

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REVIEWED BY: Environmental Health and Safety

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