

SAFETY DATA SHEET

SDS NUMBER: 31687-15-LPI

SDS REVISIONS: NEW

DATE OF ISSUE: 01/07/2015

BLITZ™ HERBICIDE

SUPERSEDES: NEW

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. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**1.1 PRODUCT IDENTIFIER:****TRADE NAME:** BLITZ™ HERBICIDE**1.2 RECOMMENDED USE:** HERBICIDE – GROUP 2**1.3 SUPPLIER DETAILS:**

LOVELAND PRODUCTS CANADA, INC.

789 Donnybrook Drive • Dorchester, Ontario N0L 1G5

1.4 24-Hour Emergency Phone : 1-800-561-8273 - **Additional Emergency Phone (Canutec):** 1-613-996-6666 (Collect)**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (67/548/EEC, 1999/45/EC)**

Combustible liquid

2.2 Label elements**Labeling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Labeling according to EC directives (67/548/EEC)

Further information : The product does not need to be labeled in accordance with EC directives or respective national laws.

2.3 Other hazards

None known

KEEP OUT OF REACH OF CHILDREN –

Appearance and odour: White to off-white liquid with mild odour.

CAUTION - POISON – MAY CAUSE SLIGHT EYE IRRITATION**Potential Health effects****Routes of exposure** Skin contact, eye contact, inhalation.**Eyes** May cause slight eye irritation.**Skin** Brief contact may cause slight skin irritation.**Inhalation** No adverse effects are anticipated from single exposure to mist.**Ingestion** Low toxicity if swallowed.**Target organs** Skin. Eyes. Inhalation.**Signs and symptoms** May cause slight irritation to the eyes.**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.**3. COMPOSITION, INFORMATION ON INGREDIENTS****3.2 Mixtures**

Chemical Name:	CAS No.	Classification	Concentration [%]
Florasulam	145701-23-1		4.80
Propylene Glycol	57-55-6		8.60
Other Ingredients			86.60

4. FIRST AID MEASURES**4.1 Description of First Aid Measures****General Advice :** Get medical attention if symptoms occur.**Ingestion:** Call a poison control centre 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 a poison control centre or doctor. Do not give anything by mouth to an unconscious person.**Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.**Inhalation:** 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 treatment advice.**Eye contact:** 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 centre or doctor for treatment advice.

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4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms : No additional symptoms are expected.

4.3 Immediate Medical Attention and Special Treatment

Treatment : Maintain adequate ventilation and oxygenation of the patient. The decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-561-8273

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

NOTES TO PHYSICIAN: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media : This material does not burn. If exposed to fire from another source, use water fog or fine spray, dry chemical, carbon dioxide (CO₂), or other extinguishing media suitable for that fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting : During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides. Hydrogen halides. Sulfur oxides.

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. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this SDS.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions : Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them.

6.2 ENVIRONMENTAL PRECAUTIONS

Environmental Precautions : Prevent further leakage or spillage if safe to do so. Do not contaminate water.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up : Contain or dike spilled material if possible. Should not be released into the environment. Large spills: Dike the spilled material where this is possible. Dig up heavily contaminated soil. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with small quantities of 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. For waste disposal, see section 13 of the SDS

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling : Avoid contact with eyes, skin and clothing. Do not breathe mist or vapour. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking and/or smoking.

7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers : Store in original containers in secure, dry heated storage. Blitz Herbicide will freeze at -10°C. If product is frozen, bring to room temperature and agitate before use. Do not allow contamination of seeds, plants, fertilizers or other pesticides. Do not contaminate food, feedstuffs, or domestic (potable) water supplies.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 CONTROL PARAMETERS:**

Not normally required.

8.2 EXPOSURE CONTROLS:**OCCUPATIONAL EXPOSURE LIMITS**

Components	List	Type	Value
Propylene glycol	WEEL	TWA Aerosol	10 mg/m ³
	CAD ON OEL	TWAEV Total vapor and aerosol	155 mg/m ³ – 50 ppm

Provide adequate general and local exhaust ventilation. Provide eyewash station.

Individual Protection Measures:

Eye / Face Protection : Chemical goggles are recommended.

Skin Protection : Chemical resistant clothing is recommended. Routinely wash work clothing and protective equipment to remove contaminants. The use of neoprene gloves is recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Respiratory Protection : In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. Wear respiratory protection during operations where spraying or misting occurs. Wear air supplied respiratory protection. Wear air supplied respiratory protection if exposure concentrations are unknown.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE :	Liquid
ODOUR:	Mild.
ODOUR THRESHOLD:	No data available.
COLOUR :	Whit to off-white.
pH :	4.36 (1% solution)
MELTING POINT / FREEZING POINT :	No data / Freezing Point: -10°C
BOILING POINT :	No data available.
FLASH POINT :	Does not flash
FLAMMABILITY (solid, gas) :	This product is not flammable.
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS :	No data available.
VAPOR PRESSURE :	No data available.
SOLUBILITY:	No data available.
PARTITION CO-EFFICIENT, n-OCTANOL / WATER :	(log Pow): -1.22.
AUTO-IGNITION TEMPERATURE :	EC Method A15 none below 400°C.
DECOMPOSITION TEMPERATURE :	No data available.
VISCOSITY :	Not determined
SPECIFIC GRAVITY (Water = 1):	1.0318 g/ml
BULK DENSITY:	8.61 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.

10. STABILITY AND REACTIVITY**10.1 REACTIVITY**

Stable

10.2 CHEMICAL STABILITY

Unstable at elevated temperatures

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No reactions known under normal use conditions. Will not polymerize.

10.4 CONDITIONS TO AVOID

Active ingredient decomposes at elevated temperatures.

10.5 INCOMPATIBLE MATERIALS

None known.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Oxides of sulfur. Hydrogen halides. Nitrogen oxides. Toxic gases may be released during decomposition.

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11. TOXICOLOGICAL INFORMATION

11.1 LIKELY ROUTES OF EXPOSURE

Skin contact, eye contact.

LC₅₀ (rat): > 5,000 mg/l (based on information from a component).

LD₅₀ Oral (rat): > 5,000 mg/kg

LD₅₀ Dermal (rat): >2,000 mg/kg

Acute Toxicity Estimates: No data available

Skin Irritation (rabbit): Not an irritant

Eye Irritation (rabbit): Slight irritant

Specific Target Organ Toxicity: Single exposure: No data available.

Aspiration: No data available

Skin Sensitization (guinea pig): Not a sensitizer

Carcinogenicity: No data available

Germ Cell Mutagenicity: No data available

Interactive Effects: None known

12. ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

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

Toxicity to fish: LC₅₀ Rainbow trout (*Oncorhynchus mykiss*) > 100 mg/l, 96 hours

Toxicity to daphnia and other aquatic invertebrates: EC₅₀ *Daphnia magna* > 100 mg/l, 48 hours

Aquatic plants EbC₅₀ (biomass) Green algae (*Pseudokirchneriella subcapitata*) 0.0611 mg/L, 72 hours

Apis mellifera (bees), dietary: > 70.25 µg/bee

Apis mellifera (bees), contact: > 100 µg/bee

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: The product is not readily biodegradable

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: Low (BCF < 100).

12.4 MOBILITY IN SOIL

Expected to be very high in soil.

12.5 OTHER ADVERSE EFFECTS

Assessment: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

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

14.1 LAND TRANSPORT

TDG / DOT Shipping Description: 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

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS**NFPA & HMIS Hazard Ratings:**

NFPA

1	Health	0	Least
0	Flammability	1	Slight
0	Instability	2	Moderate
		3	High
		4	Severe

HMIS

1	Health
0	Flammability
0	Reactivity
X	PPE

CEPA – Domestic Substances List (DSL): All substances in this product are listed on the DSL or not required to be listed

Hazardous Products Act Information: CPR Compliance: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

WHMIS Classification: This product is exempt under WHMIS

National Fire Code of Canada: Not applicable.

16. OTHER INFORMATION

MSDS STATUS: New

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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