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: SWORD® COMMERCIAL HERBICIDE
1.2 RECOMMENDED USE: GROUP 4 HERBICIDE
1.3 MANUFACTURED FOR AND DISTRIBUTED BY:
LOVELAND PRODUCTS CANADA, INC.
789 DONNYBROOK DRIVE • DORCHESTER, ONTARIO N0L 1G5
1.4 24 Hour Emergency Phone: (Chemtrec): 1-800-424-9300 (Toll Free) - **Additional Emergency Phone** 1-800-561-8273
Loveland Technical Service: 1-800-328-4678
U.S. Coast Guard National Response Center: 1-800-424-8802

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Acute Toxicity – Oral	Category 4	H302
Acute Toxicity – Dermal	Category 3	H311
Specific Target Organ Toxicity – Repeated Exposure	Category 2	H373
Aquatic Acute	Category 2	H401

2.2 Label elements

Signal word: DANGER

Hazard Statement:
H302 – Harmful if swallowed.
H311 – Toxic in contact with skin.
H373 – May cause damage to organs (liver, kidneys) through prolonged or repeated exposure.
H401 – Toxic to aquatic life.

Precautionary Statement: (Prevention):
P264 – Wash hands thoroughly after handling.
P270 – Do not eat, drink or smoke when using this product.
P280 – Wear protective gloves/protective clothing.
P260 – Do not breathe dust/fume/gas/mist/vapours/spray.

Precautionary Statement: (Response):
P301+P312 – IF SWALLOWED: Call a poison centre or doctor/physician if you feel unwell.
P330 – Rinse mouth.
P302+P352 – IF ON SKIN: Wash with plenty of water.
P312 – Call a poison centre or doctor/physician if you feel unwell.
P321 – Specific treatment (see First Aid and Toxicological Information on the product label).
P361 – Take off immediately all contaminated clothing and wash it before reuse.
P314 – Get medical advice/attention if you feel unwell.

Precautionary Statement: (Storage):
P405 – Store locked up.

Precautionary Statement: (Disposal): P501 – Dispose of contents/container in accordance with local, provincial and national regulations.

2.3 Other hazards None known

3. COMPOSITION, INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical Name:	CAS No.	Concentration [%]
MCPA, dimethylamine salt	94-74-6	25.66 | 275 g a.e./L
Dicamba, dimethylamine salt	1918-00-9	14.07 | 62.5 g a.e./L
MCPP-P, dimethylamine salt	16484-77-8	5.89 | 62.5 g a.e./L

Ingredients not listed are proprietary or non-hazardous

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

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.

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.

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.

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.

4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: Corrosive to eyes.

4.3 Immediate Medical Attention and Special Treatment

Treatment: No specific antidote. This product contains phenoxy and benzoic derivative herbicides.

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: Corrosive to eyes. Contains phenoxy and benzoic derivative herbicides. There is no specific antidote. If a large amount has been swallowed and emesis has been adequate, lavage stomach. Alkaline diuresis may be useful. Avoid epinephrine because of the danger of ventricular fibrillation. Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Carbon dioxide (CO_2), foam, water fog, dry chemical, or other extinguishing media suitable for the 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: dimethylamine and diethanolamine. Water-based, may boil and then burn.

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 re-ignition has passed. Fight fire from protected location or safe distance. 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 a cool, dry place, away from children, animals, food, feed or fertilizers. Keep unused product in resealed original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

Not normally required.

8.2 EXPOSURE CONTROLS:

Engineering Measures

Avoid breathing mists, vapours, or aerosols. Provide adequate general and local exhaust ventilation. Provide eyewash station.

OCCUPATIONAL EXPOSURE LIMITS

Components	List	Type	Value
None listed			

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 vapours, use suitable respiratory equipment. Wear respiratory protection during operations where spraying or misting occurs. Wear NIOSH-certified air-purifying respiratory protection with an N, P or R95 or HE class filter and organic vapour cartridge if necessary. Wear air supplied respiratory protection if exposure concentrations are unknown or if air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE: Liquid
ODOUR: Amine (fishy).
ODOUR THRESHOLD: No data available.
COLOUR: Clear, dark brown.
pH: 8.81 – 8.85
MELTING POINT / FREEZING POINT: No data available.
BOILING POINT: No data available.
FLASH POINT: Not applicable.
FLAMMABILITY (solid, gas): This product is not flammable.
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available.
VAPOUR PRESSURE: No data available.
SOLUBILITY: Miscible.
PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available.
AUTO-IGNITION TEMPERATURE: No data available.
DECOMPOSITION TEMPERATURE: No data available.
VISCOSITY: 35 cPs @ 20 °C.
SPECIFIC GRAVITY (Water = 1): 1.11 g/ml
DENSITY: 1.11 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
Stable under normal conditions. 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
Extreme heat and extreme cold.

10.5 INCOMPATIBILE MATERIALS
Strong.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS
Combustion products may include and are not limited to: Oxides of nitrogen, ammonia, and chlorine-containing compounds.

11. TOXICOLOGICAL INFORMATION

11.1 LIKELY ROUTES OF EXPOSURE
Ingestion. Inhalation. Skin contact, eye contact.
LC_{50} (rat): No data available.
LD_{50} Oral (rat): 1188 mg/kg
LD_{50} Dermal (rat): > 2000 mg/kg
Acute Toxicity Estimates: No data available
Skin Irritation (rabbit): Not an irritant
Eye Irritation (rabbit): Causes moderate eye injury.
Specific Target Organ Toxicity: No data available.
Aspiration: No data available.
Skin Sensitization (guinea pig): Not a skin sensitizer.
Carcinogenicity: No data available.
Germ Cell Mutagenicity: No data available
Interactive Effects: None known.

12. ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

The product is classified as environmentally hazardous. Toxic to aquatic organisms, birds, small wild mammals and non-target terrestrial plants.

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: 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 Shipping Description: NOT REGULATED

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings:

NFPA		HMIS
2 Health	0 Least	2 Health
0 Flammability	1 Slight	0 Flammability
0 Instability	2 Moderate	0 Reactivity
	3 High	D PPE
	4 Severe	

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 [Canada]: Pest control products are not controlled under WHMIS. Classified D2B.
National Fire Code of Canada: Not applicable.

Read the approved label, authorized under the Pest Control Products Act, prior to handling the pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labeling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control product label.

CAUTION POISON

16. OTHER INFORMATION

SDS STATUS: Sections 1, 2, and 16 revised.

PREPARED BY: Product Stewardship and Regulatory Affairs **REVIEWED BY:** Safety, Health and Environment

PCP (Pest Control Products Act) Registration No. 27892

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