

Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Product Identifier

Product Name: HIGHGROUND

Product Code: 078-01

PCPA Registration No.: 35705

Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Insecticide

Restrictions on use: See product label for restrictions

Details of the supplier of the safety data sheet

Company: Life Scientific (Canada) Inc.
525-8th Avenue S.W., 43rd Floor
Eighth Avenue Place East
Calgary, Alberta T2P 1G1

Telephone: 403-498-6623

Email: info@lifescientific.com

Web: www.lifescientific.com
Emergency contact information

In case of Emergency: 1-800-424-9300

Section 2. HAZARD IDENTIFICATION

Very toxic to aquatic life with long lasting effects. (H400+H410)


HAZARD CLASSIFICATION

Acute aquatic toxicity – Category 1

Chronic aquatic toxicity – Category 1

HAZARDS NOT REQUIRING CLASSIFICATION

None

PRECAUTIONARY STATEMENTS

Avoid release to the environment. (P273)

Collect spillage. (P391)

Dispose of contents/container in accordance with local/national/international regulations. (P501)

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration (% w/w)
Chlorantraniliprole	500008-45-7	10-30

Propane-1,2-diol	57-55-6	5-10
Alcohols, C12-15, ethoxylated	68131-39-5	0.1-1
1,2-benzisothiazolin-3-one	2634-33-5	<0.05

Section 4. FIRST AID MEASURES

Description of first aid measures

General advice:	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if symptoms occur.
Skin Contact	Wash with soap and water. Get medical attention if symptoms occur.
Ingestion	Rinse mouth.

Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Indication of any immediate medical attention and special treatment needed

NOTE TO PHYSICIAN: Treat symptomatically.

Section 5. FIREFIGHTING MEASURES

Extinguishing Media

Suitable	Dry chemical, foam, carbon dioxide, water spray or alcohol-resistant foam.
Unsuitable	High volume water jet.

Advice for firefighters

Specific hazards arising from the chemical	Fire will produce irritating gases. Runoff may pollute waterways.
Hazardous products	combustion Carbon monoxide, Carbon dioxide (CO ₂), Nitrogen oxides (NO _x), Sulfur oxides, Hydrogen chloride, Chlorine compounds, bromine compounds, Hydrogen cyanide
Flash point:	No data available
Auto-ignition temperature:	No data available.
Explosion data	
Sensitivity to mechanical impact	No data available.
Sensitivity to static discharge	No data available.
Special protective equipment and precautions for firefighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protective equipment.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Emergency Procedure: Isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream. Ventilate closed spaces before entering. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Personal Precautions: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation.

Methods and materials for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7. HANDLING AND STORAGE

Handling:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection equipment. Ensure adequate ventilation. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product.

Storage:

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep/store only in original container. Keep away from food, drink and animal feeding stuffs.

Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical name	CAS No.	Alberta	British Columbia	Ontario	Quebec
Propane-1,2-diol	57-55-6	--	--	TWA: 10 mg/m ³ ; aerosol only TWA: 50 ppm; aerosol and vapor TWA: 155 mg/m ³ ; aerosol and vapor	--

Note See section 16 for terms and abbreviations.

Engineering Controls

Showers
Eyewash stations
Ventilation systems

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin Protection

Wear suitable protective clothing.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls

Local authorities should be advised if significant spillages cannot be contained. Prevent product from entering drains. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Form:	Liquid
Colour:	White
Odour:	Alcohol-like

Chemical properties

pH (1% w/w):	6.88
Boiling point (°C):	Data not available
Melting point (°C):	Data not available
Flash Point:	Data not available
Oxidising properties:	Data not available
Explosive properties:	Data not available
Density (at 20 °C):	1.08 g/cm ³ at 20°C
Viscosity (Kinematic)	Non-Newtonian
Solubility in water:	Data not available

Other Information

None.

Section 10. STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical Stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Will not occur.
Conditions to avoid:	Extreme temperatures, formation of aerosol, and incompatible materials.
Incompatible materials:	Strong acids, bases, and oxidizing agents.
Hazardous decompositions products:	Stable under recommended storage conditions.

Section 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye	contact Specific test data for the substance or mixture is not available. Contact with eyes may cause irritation.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	None known.
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Acute Toxicity

Numerical measures of toxicity

The following ATE values have been calculated for the mixture:

ATE_{mix} (oral) >5000 mg/kg
 ATE_{mix} (dermal) >5000 mg/kg
 ATE_{mix} (inhalation-dust/mist) >20 mg/l

Component Information

Chemical name	Oral	Dermal	Inhalation
Chlorantraniliprole 500008-45-7	LD50 (rat): > 5000 mg/kg	LD50 (rat): > 5000 mg/kg	LC50 (rat, 4h): > 5.1 mg/L
Propane-1,2-diol 57-55-6	LD50 (rat): = 22000 mg/kg	LD50 (rabbit): > 2000 mg/kg	LC50 (rabbit, 2h): > 317042 mg/m ³
Alcohols, C12-15, ethoxylated 68131-39-5	LD50: > 2000 mg/kg	--	--
1,2-benzisothiazolin-3-one 2634-33-5	LD50 (rat): = 1020 mg/kg	--	--

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT – single exposure	No information available.
STOT – repeated exposure	No information available.
Aspiration hazard	No information available.

Section 12. ECOLOGICAL INFORMATION
Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Chlorantraniliprole 500008-45-7	EC50: > 2mg/L (120h, Raphidocelis subcapitata) NOEC: > 2 mg/L (14d, Lemna gibba)	LC50: > 1.09 mg/L (96h, Oncorhynchus mykiss) NOEC: = 0.11 mg/L (28d, Oncorhynchus mykiss)	LC50: = 0.004 mg/L (96h, Chironomus dilutes) NOEC: = 0.0026 mg/L (28d, Chironomus riparius) NOEC: = 0.05 mg/kg (28d, Chironomus riparius)	LC50: = 0.0116 mg/L (48h, Daphnia magna) NOEC: 0.00447 mg/L (21d, Daphnia magna)
Propane-1,2-diol 57-55-6	EC50: =19000mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =51600mg/L (96h, Oncorhynchus mykiss) LC50: 41 - 47mL/L (96h, Oncorhynchus mykiss) LC50: =51400mg/L (96h, Pimephales promelas) LC50: =710mg/L (96h, Pimephales promelas)	--	EC50: >1000mg/L (48h, Daphnia magna)
Alcohols, C12-15, ethoxylated 68131-39-5	EC50: = 0.031 mg/L(72h, Raphidocelis subcapitata)	LC50: = 0.628 mg/L (96h, Pimephales promelas) EC10: = 0.265 mg/L (28d, Pimephales promelas)	--	EC50: = 0.413 mg/L (48h, Daphnia magna) NOEC: = 0.036 mg/L (21d, Daphnia magna)
1,2-benzisothiazolin-3-one	EC50: = 0.11 mg/L (72h, Selenastrum capricornutum)	LC50: = 0.167 mg/L (96h, Oncorhynchus mykiss)	--	EC50: = 0.097 mg/L (48h, Daphnia magna)

	NOEC: = 0.04 mg/L (72h, Selenastrum capricornutum)			
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Persistence and Degradability No information available.

Bioaccumulative Potential

Components

Chemical name	Partition coefficient
Chlorantraniliprole 500008-45-7	2.87 (pH 7)
Propane-1,2-diol 57-55-6	-1.07
1,2-benzisothiazolin-3-one 2634-33-5	0.70 (pH 7)

Mobility in Soil No information available.

Other Adverse Effects No information available.

Section 13. DISPOSAL CONSIDERATIONS

Waste from residues/unused product Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

Section 14. TRANSPORT INFORMATION

TDG Not Regulated

Shipment by ground via highway or rail is not regulated as a dangerous good as long as the packaging meets all TDG requirements.

No marks, labels, placards or shipping papers apply per TDG 1.45.1, but may be used to facilitate multi-modal transport involving ICAO or IMO.

IMDG

UN Number: 3082
Class: 9
Packaging group: III
Marine pollutant: YES
Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorantraniliprole)

IATA

UN Number: 3082
Class: 9
Packaging group: III
Marine pollutant: YES
Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorantraniliprole)

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

Section 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

Contact supplier for inventory compliance status

Section 16. OTHER INFORMATION

Abbreviations and acronyms:

ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS No.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
GHS	Globally harmonized system
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC50	Lethal concentration to 50% of a test population
LD50	Lethal dose to 50% of a test population (median lethal dose)
NOEC	No observed effect concentration
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
PPE	Personal protective equipment
SDS	Safety data sheet
STOT RE	Specific target organ toxicity – repeated exposure
STOT SE	Specific target organ toxicity – single exposure
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organization

NFPA 704 (National Fire Protection Association):

Health - 0 Flammability - 0 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 0 Flammability - 0 Physical Hazard - 0 PPE – 0

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

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HIGHGROUND ® - trademark pending, Life Scientific Inc.

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