Safety Data Sheet

Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	**Expra Odourless Aerosol**
Product Codes:	EXPCAN, EXPCANTWIN, EXPMULOD305, EXPMULOD305T, EXPADVPACK, EXPMULPRIMOD305
Uses:	Household insecticide aerosol for automatic dispensers
Company:	STM Group NZ Ltd
Address:	16 Parkhead Place
	Albany, Auckland
Telephone:	+64 9 914 9400
Email:	info@stmgroup.co.nz
Emergency Number, 24 hr:	0800 764 766 (0800 POISON) National Poison Centre NZ

Section 2 – HAZARDS IDENTIFICATION

Classification of the product

Considered a hazardous substance according to the Hazardous Substance (Minimum Degrees of Hazard) Regulations NZ.

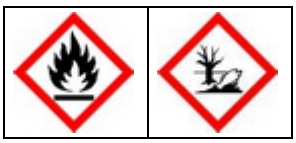
Classified as a dangerous goods according to the NZ Land Transport Rule for road and rail, IMDG for sea, IATA for air.

HSNO Classifications:

2.1.2A	Extremely flammable aerosol
6.4A	Irritating to the eye
9.1A	Very ecotoxic in the aquatic environment
9.4B	Ecotoxic to terrestrial invertebrates

GHS Classifications:

Flammable aerosol	Category 1
Eye irritation	Category 2B
Aquatic toxicity (Chronic)	Category 1



Signal Words: Danger

Hazard Statements

H222	Extremely flammable aerosol.
H320	Causes eye irritation.
H410	Very toxic to aquatic life with long lasting effects.
H442	Toxic to terrestrial invertebrates.

Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
Ethanol Denatured	64-17-5	30 - 60
Transfluthrin	118712-89-3	< 1
Permethrin	52645-53-1	< 1
Hydrocarbon propellant (LPG - Propane, Butane)	68476-85-7	30 - 60
Other ingredients determined to not be hazardous	-	to 100

Section 4 – FIRST AID MEASURES

If medical advice is needed, have product container or label at hand.

If exposed or if you feel unwell: Call a POISON CENTRE or doctor.

Eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

Inhalation: IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTRE or doctor. Do NOT induce vomiting. Where there is risk of vomiting, lean person forward or place on left side to avoid aspiration of product into lungs. Obtain immediate medical attention.

Skin contact: Direct contact may cause irritation in sensitive individuals. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice.

Notes to physician: Treat symptomatically and supportively. No specific antidote.

Section 5 – FIRE-FIGHTING MEASURES

Specific hazards: Containers can build up pressure if exposed to heat and/or fire and may explode. Vapours may form an explosive mixture with air. Vapours can travel to a source of ignition and flash back. May float and be re-ignited on surface water.

Further advice: On burning may emit toxic fumes including those of carbon monoxide and carbon dioxide. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion. Use water spray to keep fire-exposed containers cool.

Extinguishing media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

For large fires, use water spray, fog, or foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do not discharge extinguishing waters into the aquatic environment.

Do NOT use straight streams of water.

Hazchem Code: 2YE

Section 6 – ACCIDENTAL RELEASE MEASURES

Minor spills: Clean up immediately. Remove all sources of ignition. If safe to do so, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated. Undamaged cans should be gathered and stowed safely. Provide ventilation.

Major spills: Evacuate the spill area. Call the Fire Brigade. Remove all sources of ignition. If safe to do so, prevent spillage from entering drains or water courses. If material enters drains, advise emergency services. Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers for disposal. Wash area down with excess water.

Section 7 – HANDLING AND STORAGE

Handling Precautions: Read product label before use. Keep out of reach of children.

This product is highly flammable. Keep away from heat and open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Use in a well-ventilated area. Avoid breathing spray. Wash hands with soap and water after handling.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Store in a well ventilated, cool, dry place. Keep away from heat, sparks, and flame. Store locked up.

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: No value assigned for product. Exposure standards for constituents (NZ WES);

Material	TWA, mg/m^3	STEL, mg/m^3
Ethanol	1880	-
LPG (Liquefied petroleum gas – butane, propane)	1800	-

Additional Information: Wash hands before eating, drinking and smoking.

Engineering Controls: No controls required when handling small quantities. Use with adequate ventilation.

Larger quantities: General exhaust is adequate under normal operating conditions. Ventilation equipment should be explosion-resistant.

Protective Equipment: In an industrial environment: gloves, safety glasses or chemical goggles are recommended. Wash contaminated clothing before reuse. Contaminated clothing should not be allowed out of the workplace.

In case of inadequate ventilation wear respiratory protection. If TWA is exceeded, wear an approved respirator with a type A filter.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Transparent volatile liquid.

pH: Not applicable.

Vapour Density: > 1 (Air =1)

Vapour Pressure, kPa: 300 - 600

Boiling Point, °C: Not applicable.

Melting Point, °C: Not applicable.

Specific Gravity: Not applicable.

Flash Point, °C: < 0

Explosion Limit, % v/v: **LEL** 1.2% **UEL** 9.5%

Autoignition Temp, °C: Not applicable.

Solubility: Not soluble in water. Soluble in common organic solvents.

Section 10 – STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use. Not reactive. Avoid oxidisers. Avoid elevated temperatures.

Section 11 – TOXICOLOGICAL INFORMATION

Basis for Assessment: Information given is based on product testing, and/or similar products, and/or components.

Acute Oral Toxicity: Low toxicity: LD_{50} of mixture calculated to be > 5000 mg/kg, Rat.

Acute Dermal Toxicity: Low toxicity: LD_{50} of mixture calculated to be > 5000 mg/kg, Rabbit.

Acute Inhalation Toxicity: Low toxicity: LC_{50} of mixture calculated to be > 20 mg/L, Rat 4 hours. High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea.

Skin Irritation: May cause mild skin irritation. Prolonged/repeated direct contact with spray may cause defatting of the skin which can lead to dermatitis.

Avoid spraying on carpets in areas where children play. Infants up to 2 years may be at risk from prolonged exposure to residue on carpet. May cause paraesthesia (temporary itching, tingling and numbness most common in the face).

Eye Irritation: Direct contact with vapours may be irritating to the eye.

Respiratory Irritation: Direct inhalation of vapours may cause irritation to the respiratory system.

Sensitisation: Not expected to be a skin or respiratory sensitiser.

Repeated Dose Toxicity: Central nervous system: repeated exposure may affect the nervous system. Prolonged or repeated contact with product may result in irritant contact dermatitis.

Additional Information: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

Section 12 – ECOTOXICITY INFORMATION

Ecotoxicity: Very toxic in aquatic environments. Toxic to bees, fish and aquatic invertebrates.

Mobility: Not determined.

Persistence/degradability: Not determined.

Bioaccumulation: Has the potential to bioaccumulate.

Section 13 – DISPOSAL CONSIDERATIONS

Material Disposal: Product wastes are ecotoxic and should be disposed of in accordance with applicable regulations. Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water.

Large quantities should be degassed by an aerosol recycler. Do not dispose of large quantities of pressurised aerosols in landfills. Incineration in an authorised facility is suggested.

Container Disposal: Recycle empty container if possible. Product containers are also considered wastes of the same class of the contents and should be disposed of in accordance with applicable regulations.

Section 14 – TRANSPORT INFORMATION

Transport: Classified as a dangerous goods according to the NZ Land Transport Rule for road and rail, IMDG for sea, IATA for air.

Class 2.1 should not be loaded on the same vehicle as Classes 1, 3 (where both are in bulk), 4, 5, and 7. They may be loaded with Classes 3, 6, 8, 9, foodstuffs and foodstuff empties.

Proper Shipping Name: Aerosols

UN Number: 1950

Dangerous Goods Class: 2.1

Labels Required: Class 2 Flammable Gas, Marine Pollutant

Subsidiary Risk: Not applicable

Packing Group: Not applicable

Marine Pollutant: Yes

EMS Number F-D, S-U

DG Segregation: This product is classified as a Dangerous Goods. Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2012 Transport of Dangerous Goods on Land for information.

Section 15 – REGULATORY INFORMATION

Inventory Listing: All components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC).

Regulatory information: This substance is to be managed using the conditions specified in an applicable Group Standard or individual approval.

HSNO Approval Number: HSR100078 Flammable aerosol containing 6.0g/kg transfluthrin and 8.0g/kg permethrin.

EPA Hsno Controls: Refer to www.epa.govt.nz for information on Controls.

Section 16 – OTHER INFORMATION

Additional information

Health Effects from Exposure: It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations

AICS	Australian Inventory of Chemical Substances
ADG	Australian Code for the Transport of Dangerous Goods by Road and Rail
CAS	Chemical Abstract Service number
EMS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EPA	Environmental Protection Agency (New Zealand)
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC_{50}	Lethal Concentration, 50% / Median Lethal Concentration
LD_{50}	Lethal Dose, 50% / Median Lethal Dose
LEL	Lower Explosion Limit
mg/m^3	Milligrams per Cubic Metre
NICNAS	National Industrial Chemicals Notification and Assessment Scheme (Australia)
NZIoC	New Zealand Inventory of Chemicals
N.O.S.	Not otherwise specified
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
TLV	Threshold Limit Value
TWA	Time Weighted Average
UEL	Upper Explosion Limit

This MSDS summarises our best knowledge of the health and safety hazard information. Since we cannot control the conditions under which the product may be used, each user must review this MSDS in the context of how the user intends to use the product.

End of msds.