



SAFETY DATA SHEET

Product Name: FRONTLINE Spray

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Reviewed on: 10 September 2007

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name: FRONTLINE Spray
Product code: A7305
Recommended use: For the treatment, prevention and control of flea, tick and biting lice infestations and flea allergy dermatitis on dogs and cats.
Company details: Merial Ancare
Address: Level 3, Merial Building
Osterley Way
Manukau City
New Zealand
Telephone number: Phone: +64 9 980 1600 Fax: +64 9 980 1601
Emergency telephone number: Merial Ancare Freephone: 0800 800 822
National Poisons Centre: 0800 764 766 (0800 POISON)
Fire Service, Ambulance: Dial 111
Date of preparation: 10 September 2007

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Insecticide

Product components:

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Fipronil	120068-37-3	2.5g/L
Isopropyl Alcohol	67-63-0	800g/L

SECTION 3: HAZARDS IDENTIFICATION

Hazard classifications: 3.1B, 6.1E, 6.3B, 6.4A, 9.1B, 9.3C, 9.4A
Priority and secondary identifiers: Danger – Highly Flammable Liquid & Vapour
Keep Out of Reach of Children
Ecotoxic
Risk and safety phrases: Highly flammable liquid and vapour Do not use or store near heat or open flame.
May be harmful if swallowed, inhaled or absorbed through the skin. Avoid skin contact or inhalation. Wash hands and exposed skin before meals and after work.
Warning – may cause mild skin irritation. Avoid skin contact.
Harmful – may cause eye irritation. Avoid contact with eyes.
Toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.
Harmful to terrestrial vertebrates. Apply only as directed. Avoid contact with operators' skin.
Very toxic to terrestrial invertebrates. Apply only as directed

SECTION 4: FIRST AID MEASURES

Necessary first aid measures: **Contact the National Poisons Information Centre for further information: phone 0800 POISON (764 766)**
Eye Contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

	<p><u>Skin Contact:</u> After contact with skin, wash immediately with plenty of water.</p> <p><u>Inhalation:</u> Move the affected person away from the contaminated area and into fresh air. In case of respiratory difficulties practice oxygenotherapy. Seek medical advice.</p> <p><u>Ingestion:</u> Administer medicinal absorbent charcoal. Check victims state of consciousness, breathing and pulse. Seek medical advice.</p>
Workplace facilities	N/A
Required instructions:	N/A
Notes for medical personnel:	No specific antidote known, symptomatic treatment.

SECTION 5: FIRE FIGHTING MEASURES	
Type of hazard:	HIGHLY FLAMMABLE
Fire hazard properties:	Risk of explosion of containers exposed to fire. Danger of toxic gases in smoke – Carbon and Nitrogen oxides, hydrofluoric and hydrochloric acid.
Regulatory requirements:	N/A
Extinguishing media and methods:	Contain spread of the fire fighting media. Recommended fire fighting media – foam, carbon dioxide, dry powders, spray water. Cool containers exposed to fire with sprayed water. Unsuitable – water jets.
Hazchem code:	2Y[E]
Recommended protective clothing:	Wear a self contained breathing apparatus and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES	
Emergency procedures:	Emergency personnel involved in spill cleanup should wear gloves, waterproof clothing, face shield, goggles, mask with cartridge. Eliminate sources of ignition. Do not breath vapour. Ventilate area of spillage well to evaporate residual vapours. Recover the product by pumping, suction, or absorption using a dry and inert material. Absorb the leakage using dry sand or earth. Shovel up and place into a labeled tightly closed container.
Environmental Data:	No ecotoxicological data available for the formulated product.

SECTION 7: HANDLING AND STORAGE	
Precautions for safe handling:	Ventilation. Avoid any direct contact with the product. When using, do not eat, drink or smoke.
Regulatory requirements:	N/A
Handling practices:	N/A
Approved handlers:	>500L
Conditions for safe storage:	Keep out of reach of children. Keep container tightly closed and in a well ventilated place. Keep away from source of ignition. No smoking.
Store site requirements:	N/A
Packaging:	Recommended material for packaging is high density polyethylene.

Packing group II

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Workplace exposure standards:	N/A
Application in the workplace:	N/A
Exposure standards outside the workplace:	N/A
Engineering controls:	N/A
Personal protection:	Extract vapours at their point of emission. When using do not eat, drink or smoke. Wear gloves, waterproof clothing, face shield, goggles, mask with cartridge.
References:	N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specify product data:	<u>Appearance:</u> Clear, colourless liquid. <u>Boiling Point:</u> 82.0°C <u>Flash Point:</u> 18°C <u>Explosivity limits in air in %:</u> 2.0-12.0 <u>Flammability:</u> Highly Flammable <u>Vapour Pressure:</u> 42.5 hPa (at 20°C)
Required specifications:	N/A
Further specifications:	N/A
Specific advice:	N/A

SECTION 10: STABILITY AND REACTIVITY

Stability of the substance:	Stable under normal conditions of use. No dangerous reaction known under normal conditions of use.
Conditions to avoid:	Keep away from source of ignition - No smoking
Material to avoid:	N/A
Hazardous decomposition products:	N/A
Hazardous polymerization:	Danger of toxic gases in smoke - Carbon and Nitrogen oxides, hydrofluoric and hydrochloric acid.
Specific data:	N/A

SECTION 11: TOXICOLOGICAL INFORMATION

Data and interpretation:	
Summaries data:	
Effects of Acute Exposure:	<u>Eye Contact:</u> The formulation was non-irritating to the eyes of rabbits. <u>Skin Contact:</u> The formulation was non-irritating on dermal application to rabbits. LD50 dermal route >5000 mg/kg (rat) <u>No sensitising effect on guinea pig.</u> <u>Inhalation:</u> LC50 inhale (4hr) >6.32mg/L (rat)

Ingestion: LD50 oral route >2995mg/kg (rat)

Known antidote: No specific antidote known. Symptomatic treatment.

Effects of Chronic Exposure: No further data available

SECTION 12: ENVIRONMENTAL INFORMATION

Potential environmental interactions: No ecotoxicological data available for the formulated product.

Data organisation : N/A

Environmental risk and safety phrases: Marine pollutant

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal information : Smaller quantities can be disposed of with household waste.
To dispose of material, incineration in a licensed installation or place in an authorised landfill in accordance with Local Body regulations (product and contaminated packaging).

SECTION 14: TRANSPORT INFORMATION

Relevant information: Maximum Transport Quantity: 250 L
DG Class 3
UN 1219
Tracking not required

Other requirements: N/A

SECTION 15: REGULATORY INFORMATION

Regulatory status: Registered pursuant to the ACVM Act 1997, No.A7305. See www.nzfsa.govt.nz/acvm for registration conditions.
Approved pursuant to the HSNO Act 1996, Approval Code HSR001819. See www.ermanz.govt.nz for approval conditions.

HSNO and ACVM controls: Refer to Section 3

List exposure limits: N/A

SECTION 16: OTHER INFORMATION

Additional information: For product information visit the Merial website www.merial.co.nz
While the information set forth is believed to be accurate as of the date hereof, MERIAL NZ LTD. makes no warranty with respect hereto and disclaims all liability from reliance thereon.