



# SAFETY DATA SHEET

Product Name: EXIT Extreme

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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

**Product name:** Exit Extreme  
**Product code:** A10528  
**Recommended use:** Ectoparasiticide  
**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:** October 2010

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterization:** Liquid

**Product components:**

<u>Chemical Name:</u>	<u>CAS No.</u>	<u>Proportion g/L (label claim)</u>
Triflumuron	64628-44-0	25
Cypermethrin	52315-07-8	30
1-Methyl-2-pyrrolidinone (NMP)	872-50-4	<220
2-(2-butoxyethoxy) ethanol	112-34-5	>720
Other (non-hazardous)	/	To volume

## SECTION 3: HAZARDS IDENTIFICATION

**Hazard classifications:** 3.1D Flammable  
6.1D Acute toxin (oral)  
6.1E Acute toxin (dermal)  
6.3A Skin irritant  
6.4A Eye irritant  
6.5B Contact sensitiser  
6.8A Reproductive/developmental toxin  
6.9B Target organ toxin  
9.1A Aquatic toxin  
9.3C Soil toxic  
9.4A Terrestrial invertebrate toxin

**Priority and secondary identifiers:** WARNING KEEP OUT OF REACH OF CHILDREN  
WARNING Dangerous to the environment  
WARNING Combustible liquid

3.1D Combustible liquid.

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- 6.1D May be harmful if swallowed.
- 6.1E May be harmful if absorbed through the skin.
- 6.3A May cause skin irritation.
- 6.4A May cause eye irritation.
- 6.5B Repeated exposure may cause skin allergy.
- 6.8A Cypermethrin and 1-Methyl-2-pyrrolidinone may affect development and/or reproduction.
- 6.9B 2-(2-butoxyethoxy) ethanol may possibly affect the kidney and liver.
- 9.1A Very toxic to aquatic organisms.
- 9.3C Harmful to terrestrial vertebrates.
- 9.4A Very toxic to terrestrial invertebrates.

**Risk and safety phrases:**

*Do not use or store near heat or open flame. Handle with care. Avoid skin and eye contact. Avoid release to the environment. Avoid contamination of any water supply or the environment with product or empty container.*

## SECTION 4: FIRST AID MEASURES

**Necessary first aid measures:**

For advice contact the National Poisons Centre on 0800 POISON (0800 764 766), or a doctor immediately.  
INGESTION: If swallowed seek medical attention. Do NOT induce vomiting.  
EYES: If splashed in eyes wash out immediately with water.  
SKIN: If skin or hair contact occurs remove contaminated clothing and flush skin and hair with running water.  
INHALATION: Remove to fresh air

**Workplace facilities:**

No special facilities required.

**Required instructions:**

Observe good work practices and avoid skin and eye contact. Wash hands and exposed skin before meals and after use. Do not eat, drink or smoke while using. Launder protective clothing separately from other clothing, and before each reuse. When used with other treatments, this product should be applied last, to avoid contact with the operator.

**Notes for medical personnel:**

Apply symptomatic therapy. Note the nature of the product.

## SECTION 5: FIRE FIGHTING MEASURES

**Type of hazard:**

Combustible liquid

**Fire hazard properties:**

Combustible. Hazardous fumes when heated to decomposition.

**Regulatory requirements:**

Not applicable

**Extinguishing media and methods:**

Extinguish using water spray or chemical foam.  
Do not allow fire water to enter drains. 2/500L fire extinguishers required.

**Hazchem code:**

2X

**Recommended protective clothing:**

When fighting a major fire wear full protective clothing including breathing apparatus.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Emergency procedures:**

Wear suitable protective clothing. Restrict access to contaminated area. Contain the spill and prevent further dispersion. Retrieve intact containers from site. Place damaged containers into containment devices. Absorb spills with inert material and place in waste containers. Wash the area with water and absorb with further inert material. Collect spilled material and place in sealable containers for subsequent disposal. Prevent contamination of water courses or sewers. Dispose of waste safely.

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## SECTION 7: HANDLING AND STORAGE

<b>Precautions for safe handling:</b>	Apply with well-maintained and calibrated equipment. Handle with care.
<b>Regulatory requirements:</b>	N/A
<b>Handling practices:</b>	N/A
<b>Approved handlers:</b>	Not required
<b>Conditions for safe storage:</b>	Store at or below 25oC. Protect from light.
<b>Store site requirements:</b>	This substance is subject to a requirement for an emergency management plan, secondary containment and signage whenever it is held in quantities of 100L or more. See Hazardous Substances (Emergency management) regulations 25 to 42.
<b>Packaging:</b>	Packaging Schedule 3 (UN Packing Group III) for quantities >5L (Hazardous Substances Packaging Regulations 2001).

## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Workplace exposure standards:</b>	NMP (skin, 2001) [CAS no. 872-50-4]: TWA 25ppm 103mg/m <sup>3</sup> STEL 75ppm 309mg/m <sup>3</sup> Dusts 10mg/m <sup>3</sup>
<b>Application in the workplace:</b>	Prevent exposure by using engineering controls, personal protective equipment and work practices that prevent skin contact.
<b>Exposure standards outside the workplace:</b>	TELs and EELs are not set at this time.
<b>Engineering controls:</b>	Ensure that ventilation maintains dust levels below WES.
<b>Personal protection:</b>	Clothing should consist of overalls with long sleeves and impervious gloves to avoid skin contact. Wear eye protection (eg. goggles or face shield).
<b>References:</b>	N/A

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Specify product data:</b>	<table border="1"><tr><td colspan="2"><u>Cypermethrin/Triflumuron PO</u></td></tr><tr><td>Appearance</td><td>Red coloured liquid</td></tr><tr><td>Specific gravity</td><td>~ 1 g/mL</td></tr><tr><td>Boiling Point</td><td>&gt;100° C</td></tr><tr><td>Vapour Pressure</td><td>NA</td></tr><tr><td>Solubility in Water</td><td>[cypermethrin: 0.01 mg/L @ 20 C; insoluble in water]</td></tr></table>	<u>Cypermethrin/Triflumuron PO</u>		Appearance	Red coloured liquid	Specific gravity	~ 1 g/mL	Boiling Point	>100° C	Vapour Pressure	NA	Solubility in Water	[cypermethrin: 0.01 mg/L @ 20 C; insoluble in water]
<u>Cypermethrin/Triflumuron PO</u>													
Appearance	Red coloured liquid												
Specific gravity	~ 1 g/mL												
Boiling Point	>100° C												
Vapour Pressure	NA												
Solubility in Water	[cypermethrin: 0.01 mg/L @ 20 C; insoluble in water]												
<b>Required specifications:</b>	N/A												
<b>Further specifications:</b>	N/A												
<b>Specific advice:</b>	N/A												

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## SECTION 10: STABILITY AND REACTIVITY

<b>Stability of the substance:</b>	Stable under normal conditions of use and storage.
<b>Conditions to avoid:</b>	Avoid storage at high temperatures. Avoid contact with ignition sources.
<b>Material to avoid:</b>	Incompatible materials: Class 1 substances (explosives) Class 2 substances (flammable gases) Class 3.2 substances (flammable liquids) Class 4 substances (flammable solids) Class 5 substances (oxidising agents)
<b>Hazardous decomposition products:</b>	No hazardous decomposition products are expected, except when heated to decomposition.
<b>Hazardous polymerization:</b>	Components are not expected to form hazardous polymers.
<b>Specific data:</b>	N/A

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>Data and interpretation:</b>	<p><u>Cypermethrin/Triflumuron PO</u> May be harmful if swallowed, inhaled or absorbed through the skin. May cause skin and eye irritation. Repeated exposure may cause skin allergy. Danger of serious damage to health by prolonged exposure if swallowed, inhaled or absorbed through the skin. Cypermethrin and NMP may affect development and/or reproduction. Cypermethrin possibly may affect the gastrointestinal tract. Triflumuron possibly may affect the blood and haematopoietic system. 2-(2-butoxyethoxy) ethanol possibly may affect the kidney and liver.</p> <p><u>INGREDIENTS</u></p> <p><u>Cypermethrin</u> A widely used synthetic pyrethroid insecticide. Toxic by ingestion [LD<sub>50</sub> (oral, mouse) 138mg/kg]. Ingestion of high doses induce nausea, vomiting, stomach pains, diarrhoea progressing to convulsions, unconsciousness and coma. Cypermethrin is a skin and eye irritant and may cause allergic skin reactions. Fertility was significantly reduced in male rats ingesting cypermethrin at 13.15 and 18.93mg animal/day. Sperm counts were decreased. A repeated oral dose study in rats identified a NOEL for systemic effects (nervous system and gastrointestinal effects) of 1mg/kg/day.</p> <p><u>Triflumuron</u> Triflumuron is a chitin synthetase inhibitor which disrupts insect exoskeleton formation. Since this enzyme is not present in mammals, triflumuron has very low toxicity to mammals [Oral LD<sub>50</sub> (rat) &gt;5000 mg/kg, Dermal LD<sub>50</sub> (rat) &gt;5000 mg/kg]. A repeated oral dose study in rats revealed significant reductions in hemoglobin concentration and mean cell hemoglobin concentration resulting in the development of macrocytic hypochromic anemia.</p> <p><u>1-Methyl-2-pyrrolidinone</u> Low acute toxicity [LD<sub>50</sub> (oral, rabbit) 3500mg/kg; LD<sub>50</sub> (dermal) &gt;8000 mg/kg]. In reproductive studies in laboratory animals, repeated dose exposure from mating to weaning was associated with lower pup body weights, reduced fertility and fecundity, reduced litter sizes, reduced pup survival, resorptions and malformations, (NOEL 50mg/kg/d). Irritant to skin and eyes.</p> <p><u>Ethanol, 2-(2-butoxyethoxy)-</u> Low to moderate acute toxicity in laboratory species [LD<sub>50</sub> (oral) 2000-9600mg/kg; LD<sub>50</sub> (dermal) 2700mg/kg]. Repeated oral dose study in rats reported nephrotoxicity (oral LOAEL 51mg/kg/d). Chronic inhalation study in rats reported hepatotoxicity (inhalation NOAEL 0.04mg/L/d). Slightly irritating to skin and irritating to eyes.</p>
<b>Summaries data:</b>	

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## SECTION 12: ENVIRONMENTAL INFORMATION

### Potential environmental interactions:

### Data organisation :

### Environmental risk and safety phrases:

Cypermethrin/Triflumuron PO

Very toxic to aquatic organisms. Harmful to terrestrial vertebrates. Very toxic to terrestrial invertebrates.

### INGREDIENTS

#### Cypermethrin

A widely used synthetic pyrethroid insecticide. Cypermethrin acts on the nervous system shows a species selective toxicity in the order fish >amphibians much >mammals >birds. Highly toxic to fish and aquatic invertebrates [LC<sub>50</sub> (96 hr) *Barbus gonionotus* 0.4ug/L; LC<sub>50</sub> (48hr) *Daphnia magna* 0.36ug/L]. Cypermethrin is highly toxic to terrestrial invertebrates including bees [LD<sub>50</sub> 0.023ug/invertebrate]. Toxic to terrestrial vertebrates based on toxicity data from laboratory species [LD<sub>50</sub> (oral, mouse) 138mg/kg]. Does not bioaccumulate or persist.

#### Triflumuron

Triflumuron is a chitin synthetase inhibitor which disrupts insect exoskeleton formation. Toxic to aquatic species [LC<sub>50</sub> 0.225 mg/L (48h) *Daphnia magna*]. Toxic to bees. Triflumuron is not expected to persist.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Disposal information :

Preferably dispose of the product by use. Otherwise dispose of product and packaging (crush or puncture empty container) at a managed landfill or other approved facility. Avoid contamination of any water source. Do NOT use container for any other purpose.

## SECTION 14: TRANSPORT INFORMATION

### Relevant information:

Dangerous Goods for transport.  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cypermethrin 3% & Triflumuron 2.5%)

UN Numbers: 3082  
Dangerous Goods Class: 9

The maximum quantity per package of this substance allowed for carriage on public transport is 1L.

### Other requirements:

N/A

## SECTION 15: REGULATORY INFORMATION

### Regulatory status:

Registered pursuant to the ACVM Act 1997, No. A10528  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions

Approved pursuant to the HSNO Act, Approval Code HSR100014  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions

### HSNO and ACVM controls:

SDS is required for quantities greater than or equal to 1L

Refer to Section 3

### List exposure limits:

None set

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## SECTION 16: OTHER INFORMATION

**Additional information:**

For product information visit the Merial website [www.merial.co.nz](http://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.