# SAFETY DATA SHEET



# 1. Identification of the material and supplier

Product name : Mortein Fast Knockdown Fly & Mosquito Killer Odourless Aerosol

 SDS #
 : D0067111 v8.0L

 Formulation #
 : 0102281 v3.0

 Supplier
 : AUSTRALIA

RB (Hygiene Home) Australia Pty Ltd

ABN: 58 629 549 506

680 George St, Sydney, NSW 2000

Tel: +61 (0)2 9857 2000

**NEW ZEALAND** 

RB (Hygiene Home) New Zealand Limited

Company number: 7097753 2 Fred Thomas Drive, Takapuna Auckland. New Zealand 0622

Tel: +64 9 484 1400

Poison Information contact: : Australia - 13 11 26

New Zealand - 0800 764 766 or 0800 POISON

Material uses : Household insecticide.

Consumer uses.

Product use : Consumer use

### Section 2. Hazard(s) identification

Classification of the substance or mixture

: FLAMMABLE AEROSOLS - Category 1 SKIN CORROSION/IRRITATION - Category 2

HSNO Classification : 2.1.2A, 9.1A (all), 9.4C

GHS label elements

Hazard pictograms





Signal word : DANGER

Hazard statements : Extremely flammable aerosol.

Causes skin irritation.

**Precautionary statements** 

General : Read label before use. Keep out of reach of children. If medical advice is needed,

have product container or label at hand.

**Prevention**: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking. Do not spray on an open flame or other ignition source. Do not pierce

or burn, even after use. Wash hands thoroughly after handling.

Response : Not applicable

Storage : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

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### Section 2. Hazard(s) identification

Supplemental label elements

: Not applicable.

Other hazards which do not : None known.

result in classification

### Section 3. Composition and ingredient information

Substance/mixture : Mixture

Ingredient name	% (w/w)	CAS number
Butane	≥30 - ≤60	106-97-8
propane	≥10 - ≤30	74-98-6
isobutane	≥10 - ≤30	75-28-5
tetradecane	<10	629-59-4
ethane	≤3	74-84-0
isopentane	≤3	78-78-4
Esbiothrin	≤0.11	84030-86-4
Permethrin	≤0.05	52645- 53-1

Other Non-hazardous ingredients to 100%

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

### Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contact No known significant effects or critical hazards.

Inhalation : Toxic if inhaled.

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### Section 4. First aid measures

Skin contact : Causes skin irritation.

**Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

Unsuitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

Specific hazards arising from the chemical

: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.

Hazardous thermal decomposition products

: No specific data.

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective actions for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator

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### Section 6. Accidental release measures

when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the

information in "For non-emergency personnel".

#### **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

### **Small spill**

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

# Section 7. Handling and storage

### **Precautions for safe handling**

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

### Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Do not store above the following temperature

: 50 °C

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### Section 8. Exposure controls and personal protection

#### **Control parameters**

#### **Australia**

### Occupational exposure limits

Ingredient name	Exposure limits
Butane	Safe Work Australia (Australia, 1/2014). TWA: 1900 mg/m³ 8 hours. TWA: 800 ppm 8 hours.

### **New Zealand**

Occupational exposure limits : No exposure standard allocated.

The production of the producti				
Ingredient name	Exposure limits			
butane	NZ HSWA 2015 (New Zealand, 2/2013). WES-TWA: 800 ppm 8 hours. WES-TWA: 1900 mg/m³ 8 hours.			
propane	NZ HSWA 2015 (New Zealand, 11/2017). Oxygen Depletion [Asphyxiant].			
ethane	NZ HSWA 2015 (New Zealand, 11/2017). Oxygen Depletion [Asphyxiant].			

# Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### Skin protection

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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### Section 8. Exposure controls and personal protection

Other skin protection : Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

**Respiratory protection**: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a

respiratory protection program to ensure proper fitting, training, and other important

aspects of use.

### Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid. [Aerosol.]

Color : White

Odor : Slightly paraffinic
Odor threshold : Not available.

pH Not available.

Melting point: Not available.Boiling point: Not available.

Flash point : Open cup: -60°C (-76°F) [Butane]

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : 240 kPa (1800.15 mm Hg) [20°C] Butane

Vapor density: Not available.Relative density: Not available.Solubility: Not availableSolubility in water: Not available.Partition coefficient: n-: Not available.

octanol/water

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

Flow time (ISO 2431) : Not available.

Aerosol product

Type of aerosol : Spray
Heat of combustion : 21.89 kJ/g

### Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).

Incompatible materials : No specific data.

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### Section 10. Stability and reactivity

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **Section 11. Toxicological information**

### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Butane Black Flag Odourless_FF0102281_D0067111_ANZ		Rat Rat - Male, Female	658000 mg/m³ 5.67 mg/l	4 hours 4 hours
		Rat - Male Rat - Male	>2000 mg/kg >2000 mg/kg	-

Conclusion/Summary

: Not classified.Information is based on toxicity test result of the concentrate of a similar product.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Black Flag Odourless_FF0102281_D0067111_ANZ	Skin - Moderate irritant	Rabbit	-	4 hours	14 days
	Eyes - Cornea opacity	Rabbit	0	_	48 hours

#### **Conclusion/Summary**

Skin

: Causes skin irritation. Information is based on toxicity test result of the concentrate

of a similar product.

**Eyes** 

: Non-irritating to the eyes. Information is based on toxicity test result of the

concentrate of a similar product.

Respiratory

: Based on available data, the classification criteria are not met.

### **Sensitization**

3	Route of exposure	Species	Result
Black Flag Odourless_FF0102281_D0067111_ANZ	skin	Rabbit	Not sensitizing

### **Conclusion/Summary**

Skin

: Non-sensitizer. Information is based on toxicity test result of the concentrate of a similar product.

Respiratory

: Based on available data, the classification criteria are not met.

**Mutagenicity** 

Not available.

**Conclusion/Summary** 

: No known significant effects or critical hazards.

**Carcinogenicity** 

Not available.

**Conclusion/Summary** 

: No known significant effects or critical hazards.

**Reproductive toxicity** 

Not available.

**Conclusion/Summary** 

: No known significant effects or critical hazards.

**Teratogenicity** 

Not available.

**Conclusion/Summary**: No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

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# Section 11. Toxicological information

Not available

### **Aspiration hazard**

Name	Result
Paraffins (petroleum), normal C5-20	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

Inhalation: Toxic if inhaled.Skin contact: Causes skin irritation.

Ingestion : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data. **Inhalation** : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

### **Short term exposure**

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

Conclusion/Summary
 No known significant effects or critical hazards.
 Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Route	ATE value
Inhalation (vapors)	5.67 mg/l

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### **Section 12. Ecological information**

#### **Toxicity**

Not available.

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
butane	2.89	-	low
propane	1.09	-	low

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

### **Section 14. Transport information**

	ADG	ADR/RID	IMDG	IATA
UN number	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS Marine Pollutant (Permethrin, Esbiothrin)	AEROSOLS Marine Pollutant (Permethrin, Esbiothrin)	AEROSOLS Marine Pollutant (Permethrin, Esbiothrin)	Aerosols, flammable Marine Pollutant (Permethrin, Esbiothrin)
Transport hazard class(es)	2	2	2.1	2.1
Packing group	III	III	III	III
Environmental hazards	Yes.	Yes.	Yes.	Yes.

#### **Additional information**

ADG

: **Special provisions** 63, 190, 277, 327, 344

ADR/RID : Limited quantity 1 L

**Special provisions** 190, 327, 625, 344

Tunnel code (D)

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## Section 14. Transport information

: Emergency schedules F-D, S-U

**Special provisions** 63, 190, 277, 327, 344, 959

IATA : The environmentally hazardous substance mark may appear if required by other

transportation regulations.

**Quantity limitation** Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 203. Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities -

Passenger Aircraft: 30 kg. Packaging instructions: Y203.

Special provisions A145, A167, A802

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

### Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not scheduled

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

Australia inventory (AICS) **New Zealand Inventory of** 

Chemicals (NZIoC)

: Not applicable : Not applicable

Australian Pesticides and Veterinary Medicines Authority (APVMA): 60745

**HSNO Approval Number** 

**Approved Handler** 

Requirement

: HSR007755

: No.

: No. **Tracking Requirement** 

### Section 16. Any other relevant information

Key to abbreviations : ADG = Australian Dangerous Goods

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) NOHSC = National Occupational Health and Safety Commission SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

Date of issue / Date of

revision

: 02/02/2021

Version : 8.0L

Procedure used to derive the classification

Classification	Justification
	Expert judgment On basis of test data

References : Not available.

Indicates information that has changed from previously issued version.

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# Section 16. Any other relevant information

### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Please read all labels carefully before using product.

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