

## **Bravecto® Spot-On Solution**

Page 1 of 6

#### Section 1: Identification of the Substance and Supplier

Product name Bravecto Spot-On Solution

This SDS relates to the following marketed products:

Bravecto Spot-On Solution for Small Cats (1.2 – 2.8 kg)

Bravecto Spot-On Solution for Medium-Sized Cats (>2.8 - 6.25 kg)

Bravecto Spot-On Solution for Large Cats (<6.25 – 12.5 kg)
Bravecto Spot-On Solution for Very Small Dogs (2 – 4.5 kg)
Bravecto Spot-On Solution for Small Dogs (>4.5 – 10 kg)

Bravecto Spot-On Solution for Medium-Sized Dogs (>10 - 20 kg)

Bravecto Spot-On Solution for Large Dogs (>20 - 40 kg) Bravecto Spot-On Solution for Very Large Dogs (>40 - 56 kg)

**Recommended use** For spot-on flea and tick treatment in cats and dogs

Company details Schering-Plough Animal Health Ltd

33 Whakatiki Street, Upper Hutt 5018, New Zealand

Phone: 0800 800 543 - Fax: 0800 808 100 Website: www.msd-animal-health.co.nz

Hours: 8 am - 5 pm, Mon - Fri

Emergency telephone 0800 764 766 (0800 POISON) 24 hours human health

0800 243 622 (0800 CHEMCALL) 24 hours

**Date of preparation** April 2019

#### **Section 2: Hazards Identification**

**Hazard classifications** 3.1B: Flammable Liquids: high hazard

6.1E: Acutely toxic (oral and dermal)

6.3A: Skin irritant 6.4A: Eye irritant

6.8A: Reproductive/developmental toxicant

9.1A: Aquatic ecotoxicant

**GHS Pictogram:** 







Signal word Danger

**Hazard statement** H225: Highly flammable liquid and vapour.

H303: May be harmful if swallowed.

H313: May be harmful in contact with skin.

H315: Causes skin irritation. H320: Causes eye irritation.

H360: May damage fertility or the unborn child.

H410: Very toxic to aquatic life with long lasting effects.

**Prevention statement** P102: Keep out of reach of children.

P202: Do not handle until all safety precautions have been read and understood.

P210: Keep away from heat/sparks/open flames/hot surfaces.

P264: Wash thoroughly after handling. P273: Avoid release to the environment.

P280: Wear protective gloves, protective clothing and eye or face protection.

P281: Use personal protective equipment as required.



## Bravecto® Spot-On Solution

Page 2 of 6

#### Response statement

P101: If medical advice is needed, have product container or label at hand. P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P321: See first aid instruction on the label of the product.

P332 + P313: If skin irritation occurs: Get medical advice/ attention. P337 + P313: If eye irritation persists: Get medical advice/attention. P362: Take off contaminated clothing and wash before re-use.

P370 + P378: In case of fire: Use Carbon dioxide (CO2), extinguishing powder or

water spray.

P391: Collect spillage.

**Storage** P405: Store locked up.

**Disposal** P501: Dispose of product, packaging and waste at an approved landfill or other

approved facility.

#### Section 3: Composition/Information on Ingredients

Chemical name	CAS number	Concentration
Fluralaner	846731–61-3	28%
Dimethylacetamide (DMA)	127-15-5	30 – 40%
Diethyltoluamide (DEET)	134-62-3	10 - 20%
Acetone	67-64-1	10 – 20%

#### Section 4: First Aid Measures

## Necessary first aid measures

**SKIN CONTACT** In case of skin contact, carefully remove any contaminated clothing, including shoes. Remove as much as possible using an absorbent material such as tissue paper or cotton. Wash skin thoroughly with soap and water. If there is any remaining sticky residue – this can be removed with alcohol (e.g. rubbing alcohol or alcohol-based skin disinfectant gel). If irritation or symptoms occur or persist, consult a doctor.

**EYE CONTACT** In case of eye contact, immediately rinse eyes thoroughly with plenty of water. If wearing contact lenses, remove only after initial rinse, and continue rinsing eyes for at least 15 minutes. If irritation occurs or persists, consult a doctor.

**INGESTION** Rinse mouth with water and drink a glass of water. DO NOT induce vomiting unless under the direction of a qualified medical professional or National Poisons Centre. If symptoms persist, consult a doctor.

**INHALATION** Remove affected person promptly to fresh air. If any trouble breathing, get immediate medical attention. Administer artificial respiration if breathing has ceased.

Required instructions

For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor.

Workplace facilities

Emergency showers and eyewashes may be warranted depending on quantity and type of use.



# **Bravecto® Spot-On Solution**

Page 3 of 6

#### **Section 5: Fire Fighting Measures**

Type of hazard Flammable (contains Acetone and Dimethylacetamide (DMA))

Fire hazard properties Burning can produce carbon monoxide and/or carbon dioxide

**Regulatory requirements** Two fire extinguishers are required where quantities greater than 250 L are

present.

**Extinguishing media** 

and methods

Carbon dioxide (CO2), extinguishing powder or water spray.

Hazchem code 2YE (Contain spillage)

Recommended protective

clothing

Wear full protective clothing and self-contained breathing apparatus (SCBA).

#### Section 6: Accidental Release Measures

Personal Precautions Avoid contact with skin, eyes and clothing. Do not touch damaged containers or

spilled material unless wearing appropriate protective clothing.

**Environmental Precautions** 

Prevent spilled material from flowing onto adjacent land or into streams, ponds,

or lakes. Avoid release to the environment.

**Emergency procedures** Wear chemical resistant gloves and overalls, facemask or goggles. Prevent further

spillage. Adsorb spilled product with non-combustible absorbent material and place in sealable container for disposal. Wash down affected area with water plus detergent. Absorb and collect washings and place in the same sealable container for disposal. Seek advice from the local authority regarding disposal. Avoid

contamination of any water source with product or empty container.

#### Section 7: Handling and Storage

Precautions for safe

handling

Avoid contact with skin, eyes, and mucosa. Keep containers adequately sealed during material transfer, transport, or when not in use. See Section 8 (Exposure

Controls) for additional guidance.

**Regulatory requirements** Signage required where quantities greater than 100 L are present.

Emergency Plan required where quantities greater than 100 L are present. Location certificate required where quantities greater than 100 L are present. Hazardous Atmosphere Zone applicable where quantities greater than 100 L are

present.

Handling practices Avoid contact with skin. Keep containers adequately sealed during material

transfer, transport, or when not in use.

Certified handlers Not required.

**Conditions for safe** 

storage

Store in original packaging. Keep packaging sealed when not in use. Keep out of reach of children. Keep away from heat, sparks, open flame or other sources of

ignition.

**Store site requirements** Store at room temperature away from foodstuffs in the original package to protect

from moisture. Do not refrigerate. Keep away from heat, sparks, open flames, and direct sunlight. Avoid extreme heat. Not to be stored with explosives, flammable gases in bulk, poisonous gasses, spontaneously combustible substances,

oxidizing agents, organic peroxides or radioactive substances.

Packaging PG II



## **Bravecto® Spot-On Solution**

Page 4 of 6

#### **Section 8: Exposure Control/Personal Protection**

Occupational exposure

limits

No WESs are set for this product.

Application in the workplace

Ensure adequate ventilation. Keep container sealed when not in use.

Exposure standards outside the workplace

TEL - not applicable

Personal protection

Wear chemical resistant gloves, facemask or goggles.

**Engineering controls** 

The health hazard risks of handling this material are dependent on many factors, including physical form, duration and frequency of process or task, and effectiveness of engineering controls. Site-specific risk assessments should be conducted to determine the feasibility and the appropriateness of all exposure control measures. Exposure controls for normal operating or routine procedures follow a tiered strategy. Engineering controls are the preferred means of long-term or permanent exposure control. If engineering controls are not feasible, appropriate use of personal protective equipment (PPE) may be considered as alternative control measures. Exposure controls for non-routine operations must be evaluated and addressed as part of the site-specific risk assessment.

### Section 9: Physical and Chemical Properties

Appearance Yellow liquid

Boiling Point 103°C

Melting/Softening point Not determined

Vapour Pressure 67 hPa @ 20°C, 1013 hPa @ 101°C

Specific Gravity Approx. 1.063

Solubility (H<sub>2</sub>O) Not determined for mixture

Percent Volatiles Not determined

Flash Point 2°C

Evaporation Rate Not determined

#### Section 10: Stability and Reactivity

**Stability of the substance** Stable under normal conditions. No hazardous reactions known.

**Conditions to avoid** Keep away from heat, sparks, open flame and direct sunlight.

Material to avoid Avoid food products.

**Hazardous decomposition** 

products

No dangerous decomposition is expected if used according to manufacturer's

specifications.



## Bravecto<sup>®</sup> Spot-On Solution

Page 5 of 6

#### **Section 11: Toxicological Information**

#### Acute effects for individual ingredients only

ORAL Fluralaner: LD50 >2000 mg/kg (rat);

Dimethylacetamide: LD50 2250-10,000 mg/kg (rat); 2600-4900 mg/kg (mouse)

Acetone: Oral LD50: 5800 mg/kg (rat)

DERMAL Fluralaner: LD50 >2000 mg/kg (rat):

Dimethylacetamide: LD50: 2200-5000 mg/kg (rabbit), 7500 mg/kg (rat) <940 mg/kg

(quinea pig)

Acetone was mildly irritating to the skin of rabbits when dossed at 500 mg for 24

hours in a Standard Draize Test.

DEET caused minimal to moderate transient dermal irritation in animals, which

cleared by day 7.

EYE Dimethylacetamide produced mild, reversible corneal injury in the eyes of rabbits,

mice and dogs.

Acetone was moderately irritating to rabbit eyes when dosed at 20 mg for 24 hours

in a Standard Draize Test.

TEL No TEL is set for this substance at this time.

#### Chronic/long term effects for individual ingredients only

Dimethylacetamide was given to rats and rabbits either orally, dermally or by inhalation. Dimethylacetamide caused fetal death or growth retardation in rats at an inhalation dose level of 282 ppm, but not at 100 ppm. There was not an increase in birth defects seen in this study, even at doses toxic to the dam. At high inhalation doses (2000 – 2500 ppm) in rats and (300 – 480 ppm) in mice, dimethylacetamide was associated with reversible testicular toxicity.

#### **Section 12: Environmental Information**

#### Effects for individual ingredients only

AQUATIC	Fluralaner:

96-hr LC50 (Common carp): 2 mg/L

48-hr EC50 (Daphnia magna): 0.0001 - 0.01 mg/L

72-hr EC50 (P. subcapitata): >10 mg/L

DEET:

96-hr LC50 (Rainbow Trout): 75 mg/L

48-hr EC50 (Daphnia): 75 mg/L

EEL No EEL is set for this substance at this time.

### Section 13: Disposal Considerations

#### Disposal information Disposal

Dispose of unused contents in a suitable landfill. Where possible, dispose of unused product through AgRecovery Chemicals. Avoid contamination of any water source or the environment with product or empty container.

#### **Container Disposal**

Dispose of empty container by puncturing and burying in a suitable landfill. Where possible, recycle through AgRecovery. Do NOT burn.

Reference Current version of NZS 8409 Management of Agrichemicals



## Bravecto<sup>®</sup> Spot-On Solution

Page 6 of 6

### **Section 14: Transport Information**

UN Number UN1090

UN proper shipping name Acetone solution

UN dangerous goods class and subsidiary risk

3, 9

UN Packaging Group PG II

Environmental hazards Marine pollutant

Special precautions when transporting the substance





### Section 15: Regulatory Information

Regulatory status ACVM Registration No: A11261

For conditions of registration see www.foodsafety.govt.nz

HSNO Approval Code: HSR100757.

For a full listing of controls see www.epa.govt.nz

#### **Section 16: Other Information**

**Additional information** Bravecto is a registered trademark.

Schering-Plough Animal Health Ltd known as MSD Animal Health, is a subsidiary of Merck & Co., Inc., Whitehouse Station, NJ, USA. Schering-Plough Animal Health Limited urges each user or recipient of this SDS to read the entire data sheet to become aware of the potential hazards associated with this material. This SDS summarises, at the date of issue, our best knowledge of the health and safety hazard information. Although reasonable care has been taken in the preparation of this document, Schering-Plough Animal Health Ltd extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequence of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).