

Bravecto[®] spot-on solution

Page 1 of 5

Section 1: Identification of the Substance and Supplier

Product name Bravecto spot-on solution

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

Company details MSD Animal Health, 33 Whakatiki Street, Upper Hutt

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 October 2016

Section 2: Hazards Identification

Hazard classifications 3.1B, 6.1E (dermal), 6.3A, 6.4A, 6.8A, 9.1A

Priority identifiers DANGER

Ecotoxic

Secondary identifier 3.1B Highly flammable liquid and vapour – keep away from sources of ignition

6.1E May be harmful if absorbed through the skin.

6.3A May cause skin irritation 6.4A May cause eye irritation.

6.8A May damage fertility or the unborn child from repeated oral exposure.

9.1A Very toxic to aquatic organisms with long-lasting effects.

Risk & Safety Phrases R21 Harmful by in contact with skin.

R11 Highly flammable

R67 Vapours may cause drowsiness and dizziness

R50 Very toxic to aquatic organisms

Section 3: Composition/Information on Ingredients

Chemical name	CAS number	Concentration
Fluralaner	846731–61-3	13.64%
Dimethylacetamide (DMA)	127-15-5	30 – 40%
Diethyltoluamide (DEET)	134-62-3	13.2%
Acetone	67-64-1	10 – 20%



Bravecto[®] spot-on solution

Page 2 of 5

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 (eg 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.

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 250L 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

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.



Bravecto® spot-on solution

Page 3 of 5

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

Emergency Plan required where quantities greater than 100L are present. Two fire extinguishers are required where quantities greater than 250L are

present.

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

present.

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

transfer, transport, or when not in use.

Approved handlers Required where quantities greater than 500L are present.

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 requirementsStore 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 Schedule 4

Section 8: Exposure Control/Personal Protection

Workplace exposure

standards

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.

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 (H₂O) Not determined for mixture

Percent Volatiles Not determined

Flash Point 2°C

Evaporation Rate Not determined



Bravecto® spot-on solution

Page 4 of 5

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.

Section 11: Toxicological Information

Acute effects for individual ingredients only

0	Florida and I DEO x 0000 and they (ast)
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)
	Accione. Oral EBGG. GGGG Hig/kg (rat)
DERMAL	Fluralaner: LD50 >2000 mg/kg (rat);
	Dimethylacetamide: LD50: 2200-5000 mg/kg (rabbit), 7500 mg/kg (rat) <940 mg/kg
	(guinea 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 24
	, , ,
	hours in a Standard Draize Test.
TEL	No TEL is set for this substance at this time.
ICL	NO TEL IS SELTOT LITIS SUBSTAINCE ALTITIS LITTE.

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 Not applicable



Bravecto[®] spot-on solution

Page 5 of 5

Section 13: Disposal Considerations

Dispose of used pipette and sachet by wrapping with paper and putting in household waste or in a suitable landfill. Avoid contamination of any water source

or the environment with product or empty container.

Section 14: Transport Information

Relevant information UN1090 Acetone solution.

Class 3

Limited quantities/Consumer commodity 5L

Tracking not required.

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Isoxazoline derivative – Fluralaner and Diethyltoluamide (DEET))

Class 9

Limited quantities/Consumer commodity: 5L

Other requirements Refer to Haznote.

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

HSNO and ACVM controls Emergency Plan: 100L

Signage: 100L

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).