


SAFETY DATA SHEET

Bravecto[®] Plus Spot-On Solution

Section 1: Identification of the Substance and Supplier

Product name	Bravecto Plus 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)
Recommended use	For spot-on flea and tick treatment in cats
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 6.5B: Contact sensitiser 6.8A: Reproductive/developmental toxicant 6.8C: Reproductive/Developmental toxicant – Via Lactation 6.9B: Target organ systemic 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. H317: May cause an allergic skin reaction. H320: Causes eye irritation. H360: May damage fertility or the unborn child. H362: May cause harm to breast-fed children from repeated oral exposure. H373: May cause damage to nervous system, through prolonged or repeated oral or inhalation exposure 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. P233: Keep container tightly closed. P260: Do not breathe mist. P263: Avoid contact during pregnancy/while nursing.

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P264: Wash thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P273: Avoid release to the environment.
 P281: Use personal protective equipment as required.

Response statement

P101: If medical advice is needed, have product container or label at hand.
 P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
 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.
 P308 + P313: IF exposed or concerned: Get medical advice/ attention.
 P321: See first aid instruction on the label of the product.
 P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
 P337 + P313: If eye irritation persists: Get medical advice/attention.
 P370 + P378: In case of fire: Use Carbon dioxide (CO₂), extinguishing powder or water spray.
 P391: Collect spillage.

Storage

P403 + P235: Store in a well-ventilated place. Keep cool.
 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%
Moxidectin	113507-06-5	1.4%
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.

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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.

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 (CO ₂), 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.
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,

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oxidizing agents, organic peroxides or radioactive substances.

Packaging

PG II

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

No TEL or EEL is set for this substance at this time

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 ₂ 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.

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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 (guinea pig) Acetone was mildly irritating to the skin of rabbits when dosed 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

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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: A011446 For conditions of registration see www.foodsafety.govt.nz HSNO Approval Code: HSR100757. For a full listing of controls see www.epa.govt.nz
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Section 16: Other Information

Additional information Bravecto is a registered trademark.

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