

Blaze

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Section 1: Identification of the Substance and Supplier

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| Product name | Blaze |
| Recommended use | Fly & Lice Pour-On for cattle |
| 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.coopersonline.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

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| Hazard classifications | 6.3B: Skin irritant 6.4A: Eye irritant 6.5B: Contact sensitiser 6.9B: Target organ systemic toxicant 9.1A: Aquatic ecotoxicant 9.2C: Soil ecotoxicant 9.4A: Invertebrate ecotoxicant |
| GHS Pictogram: |  |
| Signal word | Warning |
| Hazard statement | H316: Causes mild skin irritation. H317: May cause an allergic skin reaction. H320: Causes eye irritation. 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. H423: Harmful to the soil environment. H441: Very toxic to terrestrial invertebrates. |
| Prevention statement | P102: Keep out of the reach of children. P103: Read label before use. P260: Do not breathe mist. P264: Wash thoroughly after handling. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment. P280: Wear protective gloves. |
| Response statement | P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314: Get medical advice/attention if you feel unwell. P321: See first aid instruction on the label of the product. P333 + P313: If skin irritation or rash occurs: Get medical advice/attention. |

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P337 + P313: If eye irritation persists: Get medical advice/attention.
 P362 + P364: Take off contaminated clothing and wash before reuse.
 P391: Collect spillage.

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 |
|---|------------|---------------|
| Deltamethrin | 52918-63-5 | 1.5% |
| Formaldehyde | 50-00-0 | 0.1-1% |
| 1,2-Benzisothiazoline-3-one (20%w/w) in Aqueous Dipropylene glycol solution | 52849-25-5 | <1% |
| Propylene glycol | 57-55-6 | <10% |

Section 4: First Aid Measures

Necessary first aid measures

SKIN CONTACT While wearing protective gloves, carefully remove any contaminated clothing, including shoes, and wash skin thoroughly with soap and water. If irritation or symptoms occur or persist, consult a doctor.

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 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 to fresh air. If any trouble breathing, get immediate medical attention. Administer artificial respiration if breathing has ceased. If irritation or symptoms occur or persist, consult a doctor.

Required instructions

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

Notes for medical personnel

Inhalation: Remove to fresh air & provide oxygen if breathing is difficult.

Skin contact: Symptoms: Tingling and pruritus with blotchy erythema on the face or other exposed areas, exacerbated by sweating or touching. Symptoms usually resolve within 24 hours without specific treatment.
 Treatment: Topical vitamin E (tocopherol acetate) has been shown to reduce skin irritation if applied soon after exposure.

Workplace facilities

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

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Section 5: Fire Fighting Measures

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| Type of hazard | Not classified as flammable |
| Fire hazard properties | No information available |
| Regulatory requirements | No information available |
| Extinguishing media and methods | Water, carbon dioxide (CO ₂), foam, or dry chemical. |
| Hazchem code | 3Z (Contain spillage) |
| Recommended protective clothing | Wear full protective clothing and self-contained breathing apparatus (SCBA). |

Section 6: Accidental Release Measures

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| 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, face mask or goggles. Prevent further spillage. Adsorb spilled product 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 or soil with product or empty container. |

Section 7: Handling and Storage

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| 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 100L are present. Emergency Plan required 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. |
| Certified handlers | Not required. |
| Conditions for safe storage | Store in original container in a cool, dry, ventilated place away from direct heat or direct sunlight. Keep container sealed when not in use. Keep out of reach of children. |
| Store site requirements | Store in a cool, dry, well ventilated area, at room temperature (5°C to 25°C). |
| Packaging | PG III |

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Section 8: Exposure Control/Personal Protection

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| Occupational exposure limits | Formaldehyde: Ceiling 1ppm (1.2 mg/m ³) Propylene glycol: TWA 150ppm 474mg/m ³ |
| Application in the workplace | Ensure adequate ventilation. Keep container sealed when not in use. |
| Exposure standards outside the workplace | No TEL is set for this substance at this time. No 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

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| Appearance | Yellow uniform aqueous suspension |
| Odour | No information available |
| Odour threshold | No information available |
| pH | No information available |
| Melting point/freezing point | No information available |
| Initial boiling point and boiling range | 100°C |
| Flash point | No information available |
| Flammability (solid, gas) | No information available |
| Upper/lower flammability or explosive limits | No information available |
| Vapour pressure | No information available |
| Vapour density | No information available |
| Relative density | 1.02 |

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| Solubility (ies) | Water: Emulsifiable |
| Partition coefficient: n-octanol/water | No information available |
| Auto-ignition temperature | No information available |
| Decomposition temperature | No information available |
| Kinematic viscosity | No information available |

Section 10: Stability and Reactivity

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| Stability of the substance | Stable under normal conditions. |
| Conditions to avoid | Avoid high temperatures. |
| Material to avoid | Avoid food products. |
| Hazardous decomposition products | Carbon oxides (COx). |

Section 11: Toxicological Information

Effects for individual ingredients only

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| Acute toxicity | (Oral) Deltamethrin: (Female rat) LD50: 31 mg/kg bw in peanut oil [EPA NZ] Formaldehyde: (Guinea pig) LD50: 260 mg/kg body weight [EPA NZ] (Dermal) Deltamethrin: (Rat) LD50: 700 mg/kg [EPA NZ] Formaldehyde: (Rabbit) LD50: 270 mg/kg [EPA NZ] (Inhalation) Deltamethrin: (Rat) LC50- 2hr: 790 mg/m ³ (= 0.79 mg/l) [EPA NZ] Formaldehyde: (Mouse) LC50- 4 hr: 497 mg/l [EPA NZ]. Formaldehyde may also cause occupational allergic asthma. Other effects of chronic exposure include irritation as seen in acute exposure, sneezing, coughing, headache, or laryngitis. |
| Aspiration hazard | No information available |
| Respiratory irritation | No information available |
| Skin corrosion/irritation | Deltamethrin: Mildly irritating to the skin [EPA NZ] Formaldehyde: (Human) Irritating to the skin [EPA NZ]. Formaldehyde is a potent allergen and may cause contact dermatitis (irritant and allergic) from repeated exposure. |
| Serious eye damage/irritation | Deltamethrin: Irritating to the eye [EPA NZ] Formaldehyde: (Rabbit) Highly irritating to the eye [EPA NZ] |
| Respiratory or skin sensitisation | Formaldehyde: (Guinea pig) Contact sensitisers [EPA NZ] |
| Germ cell mutagenicity | Formaldehyde: Suspected human mutagens [EPA NZ] |

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| Carcinogenicity | Formaldehyde: Known or presumed human carcinogens [EPA NZ]. Long-term, repeated exposure to formaldehyde has been associated with an increased risk of cancers of the bone marrow, lungs, mouth, nasal passages and sinuses. |
| Reproductive toxicity | No information available |
| Specific organ toxicity | Deltamethrin: (Oral): Neurotoxicity (nervous system) (Inhalation): Studies of repeated administration by inhalation, orally, and dermally to mice, rats, rabbits, guinea-pigs, and dogs showed that deltamethrin induces mainly agitation, hypersensitivity, impaired locomotor activity, and reduced body-weight gain. [EPA NZ] Formaldehyde: (Oral) Weight loss/metabolic [EPA NZ] |
| Narcotic effects | No information available |

Section 12: Ecological Information

Effects for individual ingredients only

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| Aquatic | Deltamethrin: (Fish): Acute: (Oncorhynchus mykiss Rainbow trout, donaldson trout) LC50- 96 hr: 0.25 ppb (= 0.00025 mg/l) Chronic: Fathead minnow (Pimephales promelas) NOEC- 280 day: 0.017 ppb (= 0.000017 mg/l) (Crustacean) Acute: (Mysid) LC50- 96 hr: 0.0017 ppb (= 0.0000017 mg/l) Chronic: Water flea (Daphnia magna) NOEL-21 day: 0.0041 ppb (= 0.0000041 mg/l) [EPA NZ] Formaldehyde: (Fish) Channel catfish Morone saxatilis LC50- 4 day (96 hr): 4.960 mg/L (Crustacean) Daphnia EC50- 24 hr: 40 mg/L (35% solution) [EPA NZ] |
| Terrestrial | Deltamethrin: (Female rat) LD50: 31 mg/kg bw in peanut oil [EPA NZ] (House fly) LD50-24 hr: 0.0125 ug/g org [EPA NZ] Formaldehyde: (Guinea pig) LD50: 260 mg/kg body weight [EPA NZ] |
| Soil | Deltamethrin: (Earthworms) LC50: 28.57 mg/kg soil [EPA NZ] Formaldehyde: Ecotoxic in the soil environment [EPA NZ] |
| Persistence and degradability | Deltamethrin: Rapidly Degradable: No Formaldehyde: Rapidly Degradable: Yes |
| Bioaccumulative | Deltamethrin: Yes Formaldehyde: No |
| Mobility in soil | Deltamethrin: Soil DT 50 > 30 days: yes Formaldehyde: Soil DT 50 > 30 days: no |
| Other adverse effects | No information available |

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Section 13: Disposal Considerations

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| Disposal information | <p>Disposal Dispose of unused product through AgRecovery Chemicals. Avoid contamination of any water source or the environment with product or empty container.</p> <p>Container Disposal Triple rinse empty container, puncture and recycle through AgRecovery. Do NOT burn.</p> |
| Reference | Current version of NZS 8409 Management of Agrichemicals. |

Section 14: Transport Information

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| UN Number | 3082 |
| UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Deltamethrin) |
| UN dangerous goods class and subsidiary risk | 9 |
| UN Packaging Group | PG III |
| Environmental hazards | Marine pollutant |
| Special precautions when transporting the substance |  |

Section 15: Regulatory Information

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| Regulatory status | <p>HSNO Approval Code: HSR002226 For full listings of controls see www.epa.govt.nz</p> <p>ACVM registration number: A008214 For conditions of registration see www.foodsafety.govt.nz</p> |
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Section 16: Other Information

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| Additional information | Blaze is a registered trademark |
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