



MATERIAL SAFETY DATA SHEET

A18014/05/AUS

BAYTICOL CATTLE DIP AND SPRAY

SECTION 1 – IDENTIFICATION, CONTACTS, HAZARDOUS NATURE

Bayer Australia Ltd 875 Pacific Highway Pymble NSW 2073	Emergency Telephone Number 1800 033 111 24 hour Emergency Service Australia Wide, Toll Free Contact Point (for non-emergency calls) Animal Health Division Telephone Number: (02) 9391-6000
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Product Name	Bayticol Cattle Dip and Spray
Product Use	Dip concentrate for control of ticks on cattle.
Other Names	Flumethrin, aromatic hydrocarbons
Creation Date	25 th June 2003
Revision Date	25 th June 2003

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification	HAZARDOUS SUBSTANCE DANGEROUS GOODS
Risk Phrases	Toxic if swallowed. May cause lung damage if swallowed.
Safety Phrases	Do not breathe vapour. Avoid contact with skin. If swallowed do not induce vomiting; seek medical advice immediately and show this container or label. RISK & SAFETY PHRASES ARE NOT REQUIRED ON PACKAGES INTENDED FOR END USERS. APPROPRIATE SAFETY DIRECTIONS AND FIRST AID STATEMENTS ARE SHOWN ON THE PRODUCT LABEL.

SECTION 3 – COMPOSITION

Ingredients	CAS No	Proportion
Flumethrin*	69770-45-2	7.5%
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	>60%

Other ingredients determined not to be hazardous	-	10 - <30%
*Flumethrin is a synthetic pyrethroid; Cyclopropanecarboxylic acid, 3- 2-chloro-2-(4-chlorophenyl)ethenyl -2,2dimethyl-,cyano(4-fluoro-3-phenoxyphenyl)methyl ester (9CI)		

SECTION 4 – FIRST AID MEASURES	
Label Regulated First Aid Statement	If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 131126.
General	Remove victim from contaminated area. If there is a risk of unconsciousness, position and transport in a stable lateral position. Remove soiled or soaked clothing immediately.
Scheduled Poisons	Poisons Information Centres in each State capital city can provide additional assistance for scheduled poisons. Phone 131126.
Inhalation	Inhalation of this product is a risk. In this event remove from exposure and perform artificial respiration if necessary.
Skin contact	Remove contaminated clothing. Wash affected area immediately with soap and water. Seek medical attention if required.
Eye contact	Flush eye immediately with large amounts of water or normal saline, occasionally lifting eyelids, until no evidence of chemical remains. Seek medical attention if eye irritation persists.
Ingestion	If vomiting occurs keep head lower than hips to help prevent aspiration. Seek medical attention if required.
Advice to doctor	See also Chapter 11. Apply basic aid and decontamination procedures. Treat symptomatically concentrating on possible solvent effects.

SECTION 5 – FIRE FIGHTING MEASURES	
Extinguishing Media	Sprayed water jet, foam, dry powder, CO ₂ , sand
Fire and Explosion Hazards	Combustible product. Product has a flash point of 66°C.
Hazardous Combustion Products	Thermal decomposition products include hydrogen chloride, hydrogen cyanide, hydrogen fluoride, carbon monoxide, and nitrogen oxides.
Fire Fighting	<p>Fight fire in the early stages if safe to do so. Wear respiratory protection.</p> <p>In well ventilated areas wear full face mask with a combination filter. (Offers no protection from carbon monoxide)</p> <p>In enclosed premises: respirator with independent air supply.</p> <p>Contain firefighting water.</p>

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Accidental Release	<p>Use any personal protective equipment listed in Chapter 8.</p> <p>Prevent spillage from spreading or entering soil, waterways and drains.</p> <p>Take up with absorbent material such as sawdust, peat or chemical binder. Fill material along with any contaminated soil etc., into sealable containers. Clean affected area with an aqueous detergent and a small amount of water. Absorb this with hydrated lime and place in a sealable container. Spread hydrated lime over the affected area. On completion of clean-up remove and wash all protective clothing and equipment with detergent and water. Place cleaning materials into the same container.</p> <p>Do not eat, drink or smoke during clean-up operation.</p>
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SECTION 7 – HANDLING AND STORAGE

Safe Handling	<p>Pour the product using a funnel or other equipment to avoid splashing and gugging. Suitable container materials: HDPE, LDPE, stainless steel.</p>
Storage	<p>Keep out of reach of children.</p> <p>Store away from food, drink or animal feeding stuffs.</p> <p>To maintain product quality, store below 30°C.</p> <p>Keep away from heat or moisture.</p> <p>This material is a Schedule 6 poison and must be stored, handled and used in accordance with the relevant regulations.</p>

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits	<p>No exposure standards allocated for flumethrin or other ingredients of this product.</p>
Ventilation	<p>Ensure adequate ventilation during use to prevent build-up of fumes. Do not inhale spray mist.</p>
Eye Protection	<p>May irritate the eyes. If product in eyes, wash out immediately with water. No eye protection is required under normal conditions of use. Under other conditions of use wear safety goggles</p>
Skin Protection	<p>May irritate the skin. Wear protective gloves when mixing or using. If product on skin, immediately wash area with soap and water. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Wash hands before breaks and at end of work.</p>
Respirator	<p>No respirator is required under normal conditions of use.</p>
Protective Material Types	<p>Rubber</p>
General Advice	<p>Product is poisonous if swallowed.</p>

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Physical State	Clear liquid
Colour	Brownish to red-brown
Odour	Slight characteristic smell
Boiling Point	Not available
Solidifying point	Not available
Density	approx 1.18 kg/L at 20°C
Vapour Pressure	Not available
Viscosity	Not available
Solubility in Water	Emulsifiable
pH	6 (10% aqueous emulsion)
Flash Point	66°C
Ignition Temperature	Not available
Explosive Limits	Not available
Other Information	Product is packed in 1 and 10 litre containers

SECTION 10 – STABILITY & REACTIVITY

Chemical Stability	Product is chemically stable.
Conditions to Avoid	Avoid oxidising agents.
Incompatible Materials	None
Hazardous Decomposition	Thermal decomposition products include hydrogen chloride, hydrogen cyanide, hydrogen fluoride, carbon monoxide, and nitrogen oxides.
Hazardous Reactions	None

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	Oral LD ₅₀ (rat) >500-<1000 mg/kg (of formulation) Dermal LD ₅₀ (rat) >5000 mg/kg (of formulation)
Local Effects	Eye: may irritate the eye Skin: may irritate the skin
Reproductive Effects	None of the ingredients of the formulation have been shown to produce reproductive or teratogenic effects.
Mutagenicity	None of the ingredients of the formulation have been shown to produce mutagenic effects.
Carcinogenic Effects	Flumethrin has been shown in animal tests to have no carcinogenic potential. Other ingredients are not classified as carcinogens

Health Hazard Information	<p>There are no specific signs of overexposure to flumethrin. Symptoms of toxicity after ingestion are likely to be the result of solvent effects, eg possible lung damage. The concentrate is dangerous. Nerve ending excitation manifested as burning and tingling sensations may be experienced after skin and mucous membrane contact. This excitation is transient.</p> <p>Solvent naphtha, heavy aromatic: Inhalation of high concentrations leads to mucous membrane irritation and anaesthesia. Frequent or persistent skin contact can lead to irritation and contact dermatitis. Aspiration of even small amounts is associated with the danger of severe lung damage with a possibly fatal outcome (chemical pneumonia).</p>
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SECTION 12 – ECOLOGICAL INFORMATION

Octanol/Water Partition Co-efficient	Not available
Ecotoxicity	<p>Fish toxicity flumethrin LC₅₀ 2.83 mg/L (96h) Trout (<i>Oncorhynchus mykiss</i>) Concentrations of 0.5 ml/L are toxic to goldfish.</p> <p>Daphnia toxicity flumethrin EC₅₀ 0.045 mg/L (48h) Water flea (<i>Daphnia magna</i>)</p> <p>Algal toxicity flumethrin Increase in biomass IC₅₀ 4.16 mg/L (96h) Green algae (<i>Scenedesmus subspicatus</i>) Growth rate IC₅₀ 11.35 mg/L (96h) Green algae (<i>Scenedesmus subspicatus</i>)</p> <p>Dangerous to fish. Do not contaminate ponds, waterways or drains with product or used containers.</p>

SECTION 13 – DISPOSAL INFORMATION

After Intended Use	<p>Disposal of unwanted dipwash should be into a pit of adequate size on level ground and away from dams, streams and watercourses. Degradation of the active chemical in the dipwash may be accelerated by adding slaked lime (calcium hydroxide) at the rate of 4 kg per 1000 litres of wash.</p> <p>Triple or (preferably) pressure rinse empty containers, adding rinsate to the dip. Do not dispose of undiluted chemicals on site. Break, crush, or puncture and bury empty containers in a local authority landfill. If not available bury containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.</p>
After spill or accident	Dispose of sealed containers at an approved local waste disposal site.

SECTION 14 – TRANSPORT INFORMATION

UN No	2902
UN Proper Shipping Name	PESTICIDE, LIQUID, TOXIC, N.O.S.
Class & Subsidiary Risk	Class 6.1; no subsidiary risk allocated.
Packaging Group	III
Hazchem Code	2X

SECTION 15 – REGULATORY INFORMATION

Poisons Schedule	Schedule 6
APVMA Registration	The product is registered by the APVMA.
Registration Number	41037
Labelling	All necessary directions, precautions and warnings for normal use of the product are included on the product label.

SECTION 16 – OTHER INFORMATION

Summary of Changes from Last Edition	Update from NOHSC 1994 format.
Acronyms	<p>ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail</p> <p>APVMA Australian Pesticides and Veterinary Medicines Authority</p> <p>CAS Chemical Abstracts Service Registry Number</p> <p>HDPE High density polyethylene</p> <p>LDPE Low density polyethylene</p> <p>NOHSC National Occupational Health & Safety Commission</p> <p>SUSDP Standard for the Uniform Scheduling of Drugs and Poisons</p> <p>UN Number United Nations number</p>

Disclaimer

This Material Safety Data Sheet has been developed according to the NOHSC National Code of Practice for the Preparation of MSDS [NOHSC:2011(2003)].

The data, information and recommendations herein ("information") are represented in good faith and believed to be correct as of the date hereof.

The purpose of this Material Safety Data Sheet is to describe product in terms of their safety requirements.

Bayer Australia Limited make no representation of merchantability, fitness for a particular purpose or application, or of any other nature with respect to the information or the product to which the information refers ("the product").

The information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use of the product.

The physical data shown herein are typical values based on material tested. These values should not be construed as a guaranteed analysis of any specific lot or as guaranteed specification for the product or specific lots thereof.

Due care should be taken to make sure that the use or disposal of this product and / or its packaging is in compliance with relevant Federal, State and Local Government regulations.

END OF MSDS