



SAFETY DATA SHEET


1. Identification

Product identifier	CLIKZIN SPRAY-ON SHEEP BLOWFLY TREATMENT
Other means of identification	
Synonyms	A-20086 A
Item Code	AH2010
Recommended use of the chemical and restrictions on use	
Recommended use	Veterinary Product
Restrictions on use	Not available.
Details of manufacturer or importer	
Company name	Elanco Australasia Pty Ltd. ACN: 076 745 198
Address	112 Wharf Road West Ryde, NSW 2114 Australia
Telephone	1800 226 324 (toll free)
E-mail	elanco_sds@elanco.com
Emergency phone number	Elanco Australasia 1800 226 324 (toll free)
24 hr emergency contact number	CHEMWATCH 1800 039 008 (spills and accidents)
24 hr emergency contact number (Local)	CHEMWATCH +61 2 9186 1132 (spills and accidents)

2. Hazard(s) identification

Classification of the hazardous chemical	
Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Hazardous to the aquatic environment, long-term hazard Category 2

Label elements, including precautionary statements

Hazard symbol(s)	
	Environment
Signal word	None.
Hazard statement(s)	Toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
Prevention	Avoid release to the environment.
Response	Collect spillage.
Storage	Not available.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards which do not result in classification	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
DICYCLANIL DICYCLANIL Technical DICYCLANIL GROUND CGA 183893	112636-83-6	1.25

Composition comments Remaining components of this product are non-hazardous and/or are present at concentrations below reportable levels.

4. First-aid measures

Description of necessary first aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.

Personal protection for first-aid responders Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Symptoms caused by exposure None known.

Medical attention and special treatment Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire fighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Move containers from fire area if you can do so without risk.

Hazchem code 3Z

General fire hazards No unusual fire or explosion hazards noted.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

For emergency responders Keep unnecessary personnel away.

Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

7. Handling and storage

Precautions for safe handling Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Storage temperature: between 2 C and 30 C.

8. Exposure controls and personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines Elanco OEL: 0.05 mg/m³ 8 hour TWA (Dicyclanil)

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection Wear safety glasses with side shields (or goggles). (AS/NZS 1337)

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. (AS/NZS 2161)

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. (AS/NZS 1715)

Thermal hazards Not available.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Suspension.

Physical state Liquid.

Form Liquid.

Colour Green.

Odour Not available.

Odour threshold Not available.

pH 5.5 - 7.5

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapour pressure Not available.

Vapour density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

Other physical and chemical parameters

Density	1.00 - 1.03 g/cm ³
Dynamic viscosity	< 400 mPa.s
Dynamic viscosity temp	25 °C (77 °F)
Explosive properties	Not explosive.
Miscible (water)	Miscible
Oxidising properties	Not oxidising.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Acute toxicity

Components	Species	Test Results
DICYCLANIL (CAS 112636-83-6)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg OECD Test Guideline 402
Inhalation		
LC50	Rat	3184 mg/m ³ , 4 hours OECD Test Guideline 403
Oral		
LD50	Rat	520 mg/kg OECD Test Guideline 401

Skin corrosion/irritation Rabbit: No irritation. (Dicyclanil)
Based on available data, the classification criteria are not met.

Serious eye damage/irritation Rabbit: No irritation (Dicyclanil)
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Respiratory sensitisation Due to lack of data the classification is not possible.

Skin sensitisation Guinea pig: Not a skin sensitiser. (Dicyclanil)
Based on available data, the classification criteria are not met.

Germ cell mutagenicity Results in genetic toxicity assays (in vitro): Negative
In vivo micronucleus test: Negative (Dicyclanil)
Based on available data, the classification criteria are not met.

Carcinogenicity No evidence for carcinogenicity in long term studies with rats and male mice. Liver tumors reported in female mice at high doses. (Dicyclanil)
Based on available data, the classification criteria are not met.

Reproductive toxicity Delayed fetal development reported along with maternal toxicity. (Dicyclanil)
Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure No significant target organ toxicity reported. (Dicyclanil)
Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure No significant target organ toxicity reported. (Dicyclanil)
Based on available data, the classification criteria are not met.

Aspiration hazard Not an aspiration hazard.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components		Species	Test Results	
DICYCLANIL (CAS 112636-83-6)	LC50	Earthworm (<i>Eisenia foetida</i>)	> 1000 mg/kg, 14 days	
		Mallard Duck (<i>Anas platyrhynchos</i>)	> 5000 ppm, 5 days	
		Trout	60 mg/l, 96 hours OECD Test Guideline 203	
	LD50	Mallard Duck (<i>Anas platyrhynchos</i>)	500 - 1620 mg/kg	
	NOEC	Midge (<i>Chironomus riparius</i>)	0.0025 mg/l, 28 days (water-spiked)	
	Aquatic	EC50	Sewage sludge	> 100 mg/l, 3 hours
	Algae	EbC50	Green Algae (<i>Scenedesmus subspicatus</i>)	24 mg/l, 72 hours OECD Test Guideline 201
		NOEC	Green Algae (<i>Scenedesmus subspicatus</i>)	9.6 mg/l, 72 hours
	Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	1.1 mg/l, 48 hours OECD Test Guideline 202
		NOEC	Water flea (<i>Daphnia magna</i>)	0.027 mg/l, 21 days 0.006 mg/l, 21 days
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	> 68 mg/l, 96 hours OECD Test Guideline 203	

Persistence and degradability Not readily degradable. (Dicyclanil)

Bioaccumulative potential

**Partition coefficient
n-octanol / water (log Kow)**

DICYCLANIL

0.51 (pH 5) (25°C)

0.68 (pH 5) (25°C)

0.69 (pH 5) (25°C)

Mobility in soil No data available for this product.

Other adverse effects Not available.

13. Disposal considerations

Disposal methods Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport information

ADG

UN number 3082
UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DICYCLANIL)
Transport hazard class(es)
Class 9
Subsidiary risk -
Packing group III
Environmental hazards Yes
Hazchem code •3Z
Special precautions for user Not available.

RID

UN number 3082
UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DICYCLANIL)
Transport hazard class(es)
Class 9
Subsidiary risk -
Label(s) 9

Packing group III
Environmental hazards Yes
Special precautions for user Not available.

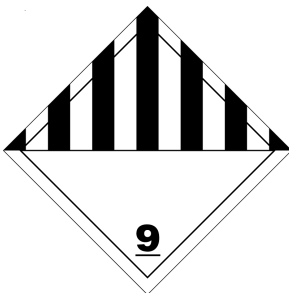
IATA

UN number 3082
UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (DICYCLANIL)
Transport hazard class(es)
Class 9
Subsidiary risk -
Packing group III
Environmental hazards Yes
ERG Code 9L
Special precautions for user Not available.
Other information
Passenger and cargo aircraft Allowed with restrictions.
Cargo aircraft only Allowed with restrictions.

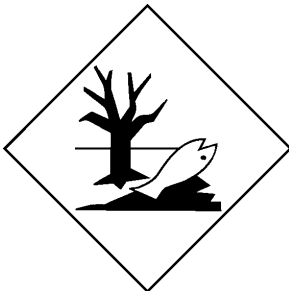
IMDG

UN number 3082
UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DICYCLANIL)
Transport hazard class(es)
Class 9
Subsidiary risk -
Packing group III
Environmental hazards
Marine pollutant Yes
EmS F-A, S-F
Special precautions for user Not available.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

ADG; IATA; IMDG; RID



Marine pollutant



15. Regulatory information

Safety, health and environmental regulations

National regulations APVMA approval number 64628
Poison Schedule 0

Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix E

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix F

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix G

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix J

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix K

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 10

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 2

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 5

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 6

DICYCLANIL (CAS 112636-83-6)

Australia Medicines & Poisons Schedule 7

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.

High Volume Industrial Chemicals (HVIC)

Not listed.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

Not listed.

National Pollutant Inventory (NPI) substance reporting list

Not listed.

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

Restricted Carcinogenic Substances

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information**Issue date** 28-July-2017**Revision date** 07-February-2019

Disclaimer As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

For additional information contact:

Elanco Animal Health

0011+1-877-352-6261

0011+1-800-428-4441

Revision information Handling and storage: Conditions for safe storage, including any incompatibilities
Toxicological information: Corrosivity
Other information: Disclaimer