

**Section 1 - Identification of the Material and Supplier**

Elanco New Zealand
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Emergency telephone numbers:
CHEMTREC 0800 293702 (Freephone)
CHEMTREC +64 9 801 0034 (Local)

Telephone number: +64 0800 352 626

Email: elanco_sds@elanco.com

Trade Name: **CLiKZiN Spray-On**

Product Use: As described on the product label:

For the control by prevention of blowfly strike in sheep.

This version issued: **16 October 2017** and is valid for 5 years from this date.

National Poisons Centre: **Phone 0800 764 766 (0800 POISON) in New Zealand**

Section 2 - Hazards Identification

EPA Approval Code: HSR001675

Hazard Classifications:

6.9B: Target organ toxicity

9.1C: Aquatic ecotoxicant

**GHS Signal word:****Warning****HAZARD STATEMENT:**

H373: Dicyclanil may cause damage to blood and the haematopoietic system through prolonged or repeated exposure.

H412: Harmful to aquatic with long lasting effects.

PREVENTION

P103: Read label before use.

P260: Do not breathe mist.

P273: Avoid release to the environment.

RESPONSE

P314: Get medical advice if you feel unwell.

STORAGE

No storage statements.

DISPOSAL

P501: Dispose of contents and containers as specified on the registered label.

Section 3 - Composition/Information on Ingredients

Ingredient	CAS number	Concentration g/L	Hazard Classifications for ingredient
Dicyclanil	112636-83-6	12.5 g/L	6.9B, 9.1C
Other ingredients	NA	To 1 L	

Section 4 - First Aid Measures

General Information: You should call a National Poisons Centre if you feel irritated by this product. The number is 0800 764 766 in New Zealand, and is available at all times. Have this SDS with you when you call.



Inhalation: If inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Skin Contact: Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for few minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard.

Eye Contact: If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

Ingestion: If swallowed, do NOT induce vomiting. Wash mouth with water and contact a National Poisons Centre, or call a doctor.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness.

Extinguishing Media: In case of fire, use carbon dioxide, dry chemical, foam, water fog.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade. Recommended personal protective equipment is full fire kit and breathing apparatus.

Flash point: No data available

Auto ignition temperature: No data available

Flammability Class: No data available

Section 6 - Accidental Release Measures

Personal Precautions: Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained. See Section 8 of the SDS for Personal Protective Equipment. Avoid contact with skin, eyes and clothing.

Environmental Precautions: Prevent spilled material from flowing onto adjacent land or into streams, ponds, or lakes. Avoid release to the environment.

Methods and Materials for Containment and Cleaning up: Clean up promptly and shovel the absorbed spill into drums for disposal. Large spills due to traffic accidents, etc., should be reported immediately to Elanco Animal Health for assistance.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Store in original container, tightly closed, away from direct sunlight, in a cool, dry place, avoiding temperature below 0°C and above 35°C. Do not store with food. Keep out of reach of children.

Section 8 - Exposure Controls and Personal Protection

Occupational exposure limits: None established.

Engineering Controls: No special requirements

Ventilation: Make sure that the work environment remains clean.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when this product is being used.

Skin Protection: Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered.

Protective Material Types: We suggest that protective clothing be made from the following materials: rubber, PVC.

Respirator: In case of insufficient ventilation, wear suitable respiratory equipment.

Section 9 - Physical and Chemical Properties:

Appearance: Light green liquid

Odour: No data available



Odour threshold:	No data available
pH:	5.5 – 7.5
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	1.01 – 1.03 @20°C
Solubility (water):	Suspensible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Kinematic viscosity:	No data available

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities: Strong oxidising agents.

Fire Decomposition: Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed.

Section 11 - Toxicological Information

Hazardous properties	Ingredient	Toxicological (health) effects
Acute toxicity:	Dicyclanil	Oral: LD50 (Rats) 500mg/kg
	Dicyclanil	Inhalation: LC50 dust/mists 3.4mg/L
	Dicyclanil	Dermal: LD50 (Rats) is >2000mg/kg
Aspiration hazard:		No information available
Respiratory irritation:		No information available
Skin corrosion/irritation:		No information available
Serious eye damage/ irritation:		No information available
Respiratory or skin sensitisation:		No information available
Germ cell mutagenicity:		No information available
Carcinogenicity:		No information available
Reproductive toxicity:		No information available
Specific organ toxicity:	Dicyclanil	Chronic oral dose testing demonstrated a target organ effect, with a NOEC of 0.71 mg/kg, on blood (changes in plasma cholesterol).
Narcotic effects:		No information available

**Section 12 - Ecological Information**

Hazardous properties	Ingredient	Ecotoxicity
Aquatic:	Dicyclanil	Algae: EC50 (96 hours) 19.5 mg/L
	Dicyclanil	Crustacea: LC50 (48 hours) 1.1 mg/L
	Dicyclanil	Fish: LC50 (96 hours) trout 60 mg/L
Terrestrial:	Dicyclanil	Rats: LD50, 500mg/kg

Persistence and degradability: No data available**Bioaccumulative:** No data available**Mobility in soil:** No data available**Other adverse effects:** No data available**Section 13 - Disposal Considerations****Disposal:** Follow the label directions.

Preferably dispose of the product by use. Otherwise dispose of product and packaging at an approved landfill or other approved facility. Triple rinse container with water and dispose of rinsate away from waterways. Crush or puncture and bury in a suitable landfill, or if appropriate recycle. Do NOT use container for any other purpose.

Section 14 - Transport Information**UN Number:** Not applicable**UN proper shipping name:** Not applicable**UN dangerous goods class and subsidiary risk:** Not applicable**UN Packaging Group:** III**Environmental hazards:** Not applicable**Special precautions when transporting the substance:** Not applicable**Section 15 - Regulatory Information****EPA Approval Code:** HSR001675**Hazard Classifications:**

6.9B: Target organ toxicity

9.1C: Aquatic ecotoxicant

Certified handler: Not required**Tracking:** Not required**ACVM No:** A010284For conditions of registration see www.foodsafety.govt.nz**Section 16 - Other Information****This SDS contains only safety-related information. For other data see product literature.****This version issued:** 16 October 2017 and is valid for 5 years from this date.**Acronyms:**

CAS number	Chemical Abstracts Service Registry Number
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms
LD50	Lethal Dose for 50% of test organisms
LC50	Lethal Concentration of chemical in the air or water that will kill 50% of the test animals when administered a single exposure.
EC50	Median effective concentration
NOEC	No Observed Effect Concentration
UN Number	United Nations Number



THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS.

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accordance with the HSNO Safety Data Sheet guidelines.