

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture CLiKZiN

Registration number -

Synonyms A-20086 A

Item Code AH2010

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Veterinary Product

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

National Supplier

Company name Elanco GmbH
Address Heinz-Lohmann-Str. 4
27472
Cuxhaven
Germany

Telephone +49 (0) 4721 747 0

E-mail elanco_sds@elanco.com

1.4 Emergency telephone number CHEMTREC International +1-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Environmental hazards

Hazardous to the aquatic environment, Category 2 H411 - Toxic to aquatic life with long-term aquatic hazard long lasting effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: DICYCLANIL

Hazard pictograms



Signal word None.

Hazard statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P273 Avoid release to the environment.

Response

P391 Collect spillage.

Storage

Not available.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
DICYCLANIL	1,25	112636-83-6	-	-	
Classification:	Acute Tox. 4;H302, Acute Tox. 4;H332, Aquatic Chronic 1;H410(M=10)				

Composition comments The full text for all H-statements is displayed in section 16. Remaining components of this product are non-hazardous and/or are present at concentrations below reportable levels.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of 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.

4.2. Most important symptoms and effects, both acute and delayed None known.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Move containers from fire area if you can do so without risk.

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

SECTION 6: Accidental release measures

6.1. 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.

6.2. 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.

6.3. Methods and material 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.

6.4. Reference to other sections Not available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Storage temperature: between 2 C and 30 C.
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Elanco OEL: 0.05 mg/m3 TWA 8 hour (Dicyclanil)
Derived no effect levels (DNELs)	Not available.
Predicted no effect concentrations (PNECs)	Not available.

8.2. Exposure controls

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.
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Individual protection measures, such as personal protective equipment

General information	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Safety glasses with side-shields conforming to EN 166.
Skin protection	
- Hand protection	Protective gloves complying with EN 374.
- Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
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.
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Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases.
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SECTION 9: Physical and chemical properties

9.1. Information on basic 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.

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.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2. Other information

Density	1,00 - 1,03 g/cm ³
Dynamic viscosity	< 400 mPa.s
Dynamic viscosity temperature	25 °C (77 °F)
Miscible (water)	Miscible

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

General information Not available.

11.1. Information on toxicological effects

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

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

Skin sensitisation Guinea pig: Not a skin sensitizer. (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.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

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.
Mixture versus substance information	No information available.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects.

Components	Species	Test Results		
DICYCLANIL (CAS 112636-83-6)				
Aquatic	LC50	Earthworm (Eisenia foetida) Mallard Duck (Anas platyrhynchos) Trout	> 1000 mg/kg, 14 days > 5000 ppm, 5 days 60 mg/l, 96 hours OECD Test Guideline 203	
	LD50	Mallard Duck (Anas platyrhynchos)	500 - 1620 mg/kg	
	NOEC	Midge (Chironomus riparius)	0,0025 mg/l, 28 days (water-spiked)	
	EC50	Sewage sludge	> 100 mg/l, 3 hours	
	Algae	EbC50	Green Algae (Scenedesmus subspicatus)	24 mg/l, 72 hours OECD Test Guideline 201
	NOEC	Green Algae (Scenedesmus subspicatus)	9,6 mg/l, 72 hours	
Crustacea	EC50	Water flea (Daphnia magna)	1,1 mg/l, 48 hours OECD Test Guideline 202	
	NOEC	Water flea (Daphnia magna)	0,027 mg/l, 21 days 0,006 mg/l, 21 days	
Fish	LC50	Bluegill (Lepomis macrochirus)	> 68 mg/l, 96 hours OECD Test Guideline 203	

12.2. Persistence and degradability Not readily degradable. (Dicyclanil)

12.3. 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)

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment No Chemical Safety Assessment has been carried out.

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information

ADR

14.1. UN number	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DICYCLANIL)

14.3. Transport hazard class(es)

Class 9
Subsidiary risk -
Label(s) 9
Hazard No. (ADR) 90
Tunnel restriction code E

14.4. Packing group III**14.5. Environmental hazards** Yes**14.6. Special precautions for user** Not available.**RID****14.1. UN number** UN3082**14.2. UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DICYCLANIL)**14.3. Transport hazard class(es)**

Class 9
Subsidiary risk -
Label(s) 9

14.4. Packing group III**14.5. Environmental hazards** Yes**14.6. Special precautions for user** Not available.**ADN****14.1. UN number** UN3082**14.2. UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DICYCLANIL)**14.3. Transport hazard class(es)**

Class 9
Subsidiary risk -
Label(s) 9

14.4. Packing group III**14.5. Environmental hazards** Yes**14.6. Special precautions for user** Not available.**IATA****14.1. UN number** UN3082**14.2. UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (DICYCLANIL)**14.3. Transport hazard class(es)**

Class 9
Subsidiary risk -

14.4. Packing group III**14.5. Environmental hazards** Yes**ERG Code** 9L
14.6. Special precautions for user Not available.**Other information****Passenger and cargo aircraft** Allowed with restrictions.**Cargo aircraft only** Allowed with restrictions.**IMDG****14.1. UN number** UN3082**14.2. UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DICYCLANIL)**14.3. Transport hazard class(es)**

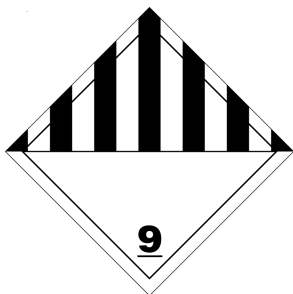
Class 9
Subsidiary risk -

14.4. Packing group III**14.5. Environmental hazards****Marine pollutant** Yes**EmS** F-A, S-F**14.6. Special precautions for user** Not available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

ADN; ADR; IATA; IMDG; RID



Marine pollutant



SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

Not available.

Material name: CLiKZiN

Version #: 04 Revision date: 07-February-2019 Issue date: 28-July-2017 Supersedes date: 26-April-2018

SDS EU

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References	Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any H-statements not written out in full under Sections 2 to 15	H302 Harmful if swallowed. H332 Harmful if inhaled. H410 Very toxic to aquatic life with long lasting effects.
Revision information	SECTION 7: Handling and storage: 7.2. Conditions for safe storage, including any incompatibilities SECTION 11: Toxicological information: Acute toxicity SECTION 11: Toxicological information: Corrosivity SECTION 12: Ecological information: 12.5. Results of PBT and vPvB assessment SECTION 16: Other information: Disclaimer
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