

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

1.1. Product identifier

Trade name or designation of the mixture	Elector
Registration number	-
Synonyms	Elector 480 g/L * Elector PSP
Item Code	AH0495

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

Identified uses	Biocide
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 +31-30-602-5955

E-mail elanco_sds@elanco.com

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

Nationaal Vergiftigingen Informatie Centrum (NVIC) 030 274 88 88

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Environmental hazards

Hazardous to the aquatic environment, acute aquatic hazard	Category 1	H400 - Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term aquatic hazard	Category 1	H410 - Very toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Contains: 1,2-Benzisothiazol-3(2H)-one, Spinosad

Hazard pictograms



Signal word Warning

Hazard statements

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing.
P284	Wear respiratory protection.

Response

P391 Collect spillage.

Storage

Not available.

Disposal

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

Supplemental label information EUH208 - Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.

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
1,2-Benzisothiazol-3(2H)-one	0,04	2634-33-5 220-120-9	-	613-088-00-6	
Classification:	Acute Tox. 4;H302, Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Dam. 1;H318, Aquatic Acute 1;H400				
Spinosad	44,2	168316-95-8 434-300-1	-	603-209-00-0	
Classification:	Aquatic Acute 1;H400(M=10), Aquatic Chronic 1;H410(M=10)				

Composition comments Spinosad is a mixture of the following components: Spinosyn A (CAS# 131929-63-0) and Spinosyn D (CAS# 131920-60-7).

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

SECTION 4: First aid measures

General information In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

4.1. Description of first aid measures

Inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Call a physician or poison control centre immediately.
Skin contact	Wash off immediately with plenty of water. Take off contaminated clothing and wash before reuse. Get immediate medical attention.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control centre immediately.
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to a victim who is unconscious or is having convulsions. Call a physician or poison control centre immediately.

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 None known.

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

Suitable extinguishing media Alcohol resistant foam. Water. Carbon dioxide (CO₂). Dry chemicals.

Unsuitable extinguishing media Not available.

5.2. Special hazards arising from the substance or mixture Fire or excessive heat may produce hazardous decomposition products.

5.3. Advice for firefighters

Special protective equipment for firefighters Wear self-contained breathing apparatus and protective clothing.

Special fire fighting procedures Not available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel See Section 8 for personal protective equipment.

For emergency responders Not available.

6.2. Environmental precautions Do not discharge into drains, water courses or onto the ground. Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up	Soak up with inert absorbent material. Large spills due to traffic accidents, etc., should be reported immediately to CHEMTREC and Elanco Animal Health for assistance.
6.4. Reference to other sections	Not available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	NOT INTENDED FOR HUMAN USE. Keep out of reach of children. To avoid risks to human health and the environment, comply with the instructions for use.
7.2. Conditions for safe storage, including any incompatibilities	Store in original container. Keep away from food, drink and animal feeding stuffs.
7.3. Specific end use(s)	Biocide

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	Supplier: TWA 0.3 mg/m ³ (Spinosad)
Derived no effect levels (DNELs)	Not available.
Predicted no effect concentrations (PNECs)	Not available.

8.2. Exposure controls

Appropriate engineering controls Use appropriate control measures such as fume hood, ventilated enclosure, local exhaust ventilation, or down-draft booth.

Individual protection measures, such as personal protective equipment

General information	Not available.
Eye/face protection	Safety glasses with side-shields conforming to EN 166.
Skin protection	
- Hand protection	Protective gloves complying with EN 374.
- Other	Chemical-resistant gloves and impermeable body covering to minimize skin contact. (EN 14605 for splashes).
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Thermal hazards	Not applicable.
Hygiene measures	Use good industrial hygiene practices in handling this material.

When mixing and handling, use protective clothing, impervious gloves, and dust respirator (recommended). Operators should wash thoroughly with soap and water after handling. If accidental eye contact occurs, immediately rinse with plenty of water.

Environmental exposure controls Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Liquid.
Form	Suspension.
Colour	Tan.
Odour	None known.
Odour threshold	No data available.
pH	No data available.
Melting point/freezing point	No data available.
Initial boiling point and boiling range	100 °C (212 °F)
Flash point	> 93,0 °C (> 199,4 °F) Test method not available.
Evaporation rate	No data available.
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	No data available.
Flammability limit - upper (%)	No data available.
Explosive limit - lower (%)	No data available.
Explosive limit - upper (%)	No data available.

Vapour pressure No data available.

Vapour density No data available.

Relative density No data available.

Solubility(ies)

Solubility (water) Soluble

Partition coefficient (n-octanol/water) No data available.

Auto-ignition temperature No data available.

Decomposition temperature No data available.

Viscosity No data available.

Viscosity temperature No data available.

Explosive properties Not explosive.

Oxidising properties No oxidizing properties.

9.2. Other information

Density No data available.

Minimum ignition temperature No data available.

Percent volatile No data available.

Specific gravity 1,09

VOC No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity Not water reactive.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous reactions Hazardous polymerisation does not occur.

10.4. Conditions to avoid None under normal conditions.

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 Not known.

Components	Species	Test Results
Spinosad (CAS 168316-95-8)		
Acute		
Dermal		
LD	Rabbit	> 5000 mg/kg
Inhalation		
LC50	Rat	> 5180 mg/m ³ , 4 hours
Oral		
LD50	Rat	> 2000 mg/kg
Skin corrosion/irritation	Rabbit: No irritation. (Spinosad) Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Rabbit: Slight. (Spinosad) Based on available data, the classification criteria are not met.	

Respiratory sensitisation	Due to lack of data the classification is not possible.
Skin sensitisation	No effects identified in animal studies. (Spinosad) Based on available data, the classification criteria are not met.
Germ cell mutagenicity	In vitro and in vivo tests did not show mutagenic effects. (Spinosad) Based on available data, the classification criteria are not met.
Carcinogenicity	No effects identified in animal studies. (Spinosad) Based on available data, the classification criteria are not met.
Reproductive toxicity	In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. (Spinosad) Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Due to lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	In animals, has been shown to cause vacuolation of cells in liver, kidney, and bone tissues and changes in blood and serum biochemistry. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use. (Spinosad) Based on available data, the classification criteria are not met.
Aspiration hazard	No aspiration toxicity classification
Mixture versus substance information	Not available.
Other information	None known.

SECTION 12: Ecological information

12.1. Toxicity Very toxic to aquatic life with long lasting effects.

Components	Species	Test Results	
Spinosad (CAS 168316-95-8)	ErC50	Navicula pelliculosa	0,079 mg/l, 120 h (static)
	NOEC	Navicula pelliculosa	0,036 mg/l
Aquatic			
Algae	NOEC	Duckweed (Lemna minor)	1,4 mg/l
Crustacea	EC50	Daphnia	7,37 mg/l, 48 h
		Water flea (Daphnia magna)	> 1 mg/l, 48 h (static)
Fish	NOEC	Water flea (Daphnia magna)	0,0012 mg/l, 21 days (flow through)
	LC50	Carp (Cyprinus carpio)	4,5 mg/l, 96 h (flow through)
	NOEC	Oncorhynchus mykiss	0,5 mg/l Early life-stage (flow through)

12.2. Persistence and degradability No data is available on the degradability of this product.

12.3. Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient n-octanol/water (log Kow) No data available.

Bioconcentration factor (BCF)
Spinosad < 500

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

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

General information Effective January 1, 2015 by Special Provision, UN3077 and UN3082 when packaged in inner packages of 5L / 5 KG or less are not subject to the dangerous goods regulations.

ADR

14.1. UN number	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPINOSAD)
14.3. Transport hazard class(es)	
Class	9

Subsidiary risk -
Label(s) 9
Hazard No. (ADR) 90
Tunnel restriction code Not available.
14.4. Packing group III
14.5. Environmental hazards Yes
14.6. Special precautions Not available.
for user

RID

14.1. UN number UN3082
14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPINOSAD)
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 Not available.
for user

ADN

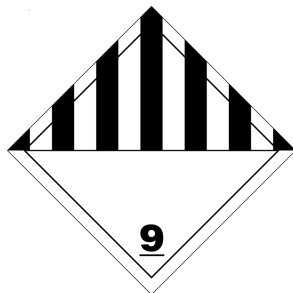
14.1. UN number UN3082
14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPINOSAD)
14.3. Transport hazard class(es)
Class 9
Subsidiary risk -
Label(s) 9
14.4. Packing group III
14.5. Environmental hazards Yes
14.6. Special precautions Not available.
for user

IATA

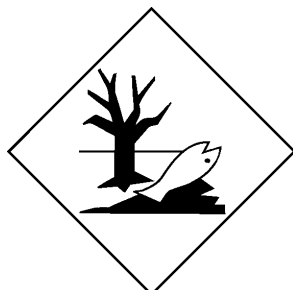
14.1. UN number UN3082
14.2. UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (SPINOSAD)
14.3. Transport hazard class(es)
Class 9
Subsidiary risk -
14.4. Packing group III
14.5. Environmental hazards Yes
ERG Code 9L
14.6. Special precautions Not available.
for user
Other information
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. (SPINOSAD)
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 Not available.
for user
1,2-BENZISOTHIAZOL-3(2H)-ONE
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.



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

1,2-Benzisothiazol-3(2H)-one (CAS 2634-33-5)

Spinosad (CAS 168316-95-8)

Other regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended and respective national laws implementing EC directives.

National regulations

Follow national regulation for work with chemical agents.

Regulatory Information: Authorizations

NL-0005206-0000

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

TWA: Time Weighted Average

References	Not available.
Information on evaluation method leading to the classification of mixture	Not available.
Full text of any H-statements not written out in full under Sections 2 to 15	<p>H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.</p>
Lilly Lab Code	<p>Health: 1 Fire: 0 Reactivity: 0</p>
Revision information	<p>Product and Company Identification: Synonyms Composition / Information on Ingredients: Undisclosed Ingredient Statement Toxicological Information: Toxicological Data Ecological Information: Ecotoxicity Transport Information: Material Transportation Information Regulatory Information: Risk Phrases - Labeling GHS: Classification</p>
Disclaimer	<p>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.</p> <p>For additional information contact: Elanco Animal Health 0011+1-877-352-6261 0011+1-800-428-4441</p>