

## SAFETY DATA SHEET Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

## Ethosat 500

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ADM.02650.H.1.A / AG-E1-500 SC1

Product Code(s) HRB00995-44 15795

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

1.1. Product identifier

## Ethosat 500

Other means of identification	
Pure substance/mixture	Mixture

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

Recommended use	Herbicide; Professional use
Uses advised against	No information available

### 1.3. Details of the supplier of the safety data sheet

### Supplier

ADAMA Agricultural Solutions UK Ltd Third Floor East 1410 Arlington Business Park Theale READING RG7 4SA Tel: 01635 860555 Fax: 01635 861555 **For further information, please contact** 

E-mail address

ukenquiries@adama.com

1.4. Emergency telephone number

Emergency Telephone

UK: National Chemical Emergency Centre: Tel: 01856 407333 (24 hours, 7 days a week)

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms

Signal word	Warning
Hazard statements	H410 - Very toxic to aquatic life with long lasting effects
Precautionary Statements	P102 - Keep out of reach of children P501 - Dispose of contents/ container to an approved waste disposal plant
EU Specific Hazard Statements	EUH208 - Contains (1,2-Benzisothiazolin-3-one). May produce an allergic reaction EUH401 - To avoid risks to human health and the environment, comply with the instructions for use
Additional phrases for PPP	SP1 - Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).
2.3. Other hazards	
PBT & vPvB	The product does not contain any substance(s) classified as PBT or vPvB.
Endocrine Disruptor Information	None known.
Persistent Organic Pollutants	Not applicable.

# SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	CAS No	EC No	Index No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	REACH Registration Number
Ethofumesate	26225-79-6	247-525-3	607-314-00-2	42-47	Aquatic Acute 1 (H400) Aquatic Chronic 1(H410)		M=1 M=1	No data available
Poly(oxy-1,2-ethanediy I), .alpha[tris(1-phenylet hyl)phenyl]omegahy droxy-		-		1-3	Aquatic Chronic 3 (H412)			No data available

1,2-Benzisothiazolin-3-	2634-33-5	220-120-9	613-088-00-6	< 0.05	Skin Irrit. 2	Skin Sens. 1 ::	01-212076154
one					(H315)	C>=0.05%	0-60-XXXX
					Eye Dam. 1		
					(H318)		
					Skin Sens. 1		
					(H317)		
					Acute Tox. 4		
					(H302)		
					Aquatic Acute	è	
					1 (H400)		

Acute toxicity estimates (ATEs) according to Part 3 of Annex VI to Regulation (EC) No 1272/2008 are indicated in this table, if available.

### Full text of H- and EUH-phrases: see section 16

## SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Skin contact	In the case of skin irritation or allergic reactions see a doctor. Wash skin with soap and water.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms	None known.
4.3. Indication of any immediate me	dical attention and special treatment needed
Note to doctors	Treat symptomatically.
SECTION 5: Firefighting m	easures
5.1. Extinguishing media	
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
5.2. Special hazards arising from th	e substance or mixture
Specific hazards arising from the chemical	No information available.
5.3. Advice for firefighters	

Special protective equipment for	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
fire-fighters	Use personal protection equipment.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	See Section 12 for additional Ecological Information.
6.3. Methods and material for conta	inment and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections	
Reference to other sections	See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

7.1. Precautions for safe handling				
Advice on safe handling	Ensure adequate ventilation.			
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.			
7.2. Conditions for safe storage, including any incompatibilities				
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.			
7.3. Specific end use(s)				
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.			

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Chemical name	United Kingdom			
Propane-1,2-diol	TWA: 150 ppm			
57-55-6	TWA: 474 mg/m <sup>3</sup>			
	TWA: 10 mg/m <sup>3</sup>			
	STEL: 450 ppm			
	STEL: 1422 mg/m <sup>3</sup>			
	STEL: 30 mg/m <sup>3</sup>			

Sodium hy 1310-7		STEL: 2 mg/m <sup>3</sup>
Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC)	No information available. No information available.	
8.2. Exposure controls Engineering controls	Ensure adequate ventilation, esp	ecially in confined areas.
Personal protective equipment Eye/face protection	Tight sealing safety goggles.	
Hand protection	(recommendation: protection inde	es (EN 374) also with prolonged, direct contact ex 6, corresponding > 480 minutes Permeability time 4): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5
Skin and body protection		and equipment if required, such as safety goggles certified 374, protective boots certified to EN 13832, and/or a water % polyester and 35 % cotton.
Respiratory protection	In case of insufficient ventilation,	wear suitable respiratory equipment.
General hygiene considerations	Handle in accordance with good	industrial hygiene and safety practice.
Environmental exposure controls	Local authorities should be advis	ed if significant spillages cannot be contained.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Property	Values	Method	Remarks
Appearance Physical state	: Liquid		
Colour	: white		
Odour	: sweet		
Odour threshold	: No data available	CIPAC MT 75	$a = 1 \times 10^{-1}$
pH Melting point / freezing point °C	: 7.2-8.2	CIFAC MI 73	solution (1%) Not applicable
Boiling point / boiling range °C	: No data available		
Flash point °C	: > 90		
Evaporation rate	: No data available		
Flammability (solid, gas)	: Not applicable for liquids		
Upper/lower flammability or	: No data available		
explosive limits			
Vapour pressure kPa	:		Not applicable
Vapour density Relative density	: No data available : 1.07 - 1.17	EEC A.3	
Solubility(ies) mg/l	· ····		Not applicable
Partition coefficient Log Pow	-		See Section 12 for additional
			Ecological Information
Autoignition temperature °C	: 480	EEC A.15	
Decomposition temperature °C			
Kinematic viscosity mm2/s 40 °C	: 62.5	OECD 114	
Surface tension	:		No data available

Particle Size	: Not applicable
9.2. Other information	
Bulk density g/ml	:
9.2.1. Information with regards to pl Explosive properties Oxidising properties	h <b>ysical hazard classes</b> : Not an explosive : Not oxidizing
<b>9.2.2. Other safety characteristics</b> No information available	
SECTION 10: Stability and	reactivity
10.1. Reactivity	
Reactivity	No information available.
10.2. Chemical stability	
Stability	Stable under normal conditions.
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.
10.3. Possibility of hazardous reaction	ions
Possibility of hazardous reactions	None under normal processing.
10.4. Conditions to avoid	
Conditions to avoid	None known based on information supplied.
10.5. Incompatible materials	
Incompatible materials	None known based on information supplied.
10.6. Hazardous decomposition pro	ducts
Hazardous decomposition products	None known based on information supplied.

## SECTION 11: Toxicological information

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Acute toxicity

Oral LD50 mg/kg Dermal LD50 mg/kg	Values : > 2000 : > 2000 : > 4.29	<u>Species</u> Rat Rat	Method OECD 423 OECD 402	<u>Remarks</u>
Inhalation LC50 mg/l		Rat	OECD 403	attainable concentration
Skin corrosion/irritation Serious eye damage/eye irritation Sensitisation	<ul><li>Non-irritating to the skin</li><li>Not irritating to eyes</li><li>Not a skin sensitiser</li></ul>	Rabbit Rabbit Guinea pig	OECD 404 OECD 405 OECD 406	

## Chronic toxicity

Germ cell mutagenicity Chemical name Ethofumesate	: Not classified
Carcinogenicity Chemical name Ethofumesate	: Not Carcinogenic
Reproductive toxicity . Chemical name Ethofumesate	: Not toxic for the reproductive system
STOT - Single Exposure Chemical name Ethofumesate	: Not classified
STOT - Repeated Exposure Chemical name Ethofumesate	: Not classified
Aspiration hazard Chemical name Ethofumesate	: Not classified

#### 11.2. Information on other hazards

**11.2.1.** Endocrine disrupting propertiesEndocrine disrupting propertiesNo information available.

11.2.2. Other information Other adverse effects

No information available.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

<u>Acute toxicity</u> Fish 96-hour LC50 mg/l Crustacea 48-hour EC50 mg/l Algae 72-hour EC50 mg/l Other plants EC50 mg/l	Values : 36.6 : 46.33 : 9.52 : 0.257	<u>Species</u> L. idus Daphnia magna D. Subspicatus Myriophyllum spicatum	Method OECD 203 OECD 202 OECD 201 OECD 239	Remarks 14 days
<u>Chronic aquatic toxicity</u> Fish NOEC mg/l Crustacea NOEC mg/l Algae NOEC mg/l Other plants NOEC mg/l	ValuesNo data available25.3No data available0.0102	<u>Species</u> Daphnia magna Myriophyllum spicatum	Method OECD 202 OECD 239	<u>Remarks</u>
Terrestrial Toxicity Birds Oral LD50 mg/kg Chemical name Ethofumesate Bees Oral LD50 µg/bee	: > 2000	A. platyrhynchos	OECD 401	.?

Ethofumesate	: >	<b>5</b> 0	Apis mellifera	OECD 213	
12.2. Persistence and degradability Abiotic Degradation Water DT50 days Chemical name Ethofumesate	- : 2	208			
Soil DT50 days Chemical name Ethofumesate	: 3				Field
<b>Biodegradation</b> <b>Chemical name</b> Ethofumesate	: N	Not readily biodegr	adable		
<u>12.3. Bioaccumulative potential</u> Partition Coefficient (n-octanol/water) Log Pow Chemical name	<u>Va</u>	alues		<u>Method</u>	<u>Remarks</u>
Ethofumesate	: 2	2.7		OECD 107	
<b>Bioconcentration factor (BCF)</b> Chemical name Ethofumesate	:				No data available
<u>12.4. Mobility in soil</u> Adsorption/Desorption Chemical name		alues		<u>Method</u>	<u>Remarks</u>
Ethofumesate	: 1	18			KOC
<b>12.5. Results of PBT and vPvB assessment</b> The components in this formulation do not meet the criteria for classification as PBT or vPvB					
12.6. Endocrine disrupting properties					
Endocrine disrupting properties	No in	nformation availabl	e.		

## 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste from residues/unused products	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.
Contaminated packaging	Improper disposal or reuse of this container may be dangerous and illegal.
Other information	Waste codes should be assigned by the user based on the application for which the product was used.

## **SECTION 14: Transport information**

ADF	2
14.1	

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

14.4 Packing group Description	III UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethofumesate), 9, III
14.5 Environmental hazard 14.6 Special Precautions for Users	Yes
Special Provisions Classification code	274, 335, 601, 375 M6
<u>RID</u> 14.1 UN number	UN3082
14.1 OK number 14.2 UN proper shipping name 14.3 Transport hazard class(es)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethofumesate) 9
14.4 Packing group Description	III UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethofumesate), 9, III
Environmental hazard Special Precautions for Users 14.5 Environmental hazard	Yes
14.6 Special Precautions for Users Special Provisions Classification code	274, 335, 375, 601 M6
IMDG_	INIO
14.1 UN number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethofumesate) 9 III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethofumesate), 9, III, Marine pollutant
<ul> <li>14.5 Environmental hazard</li> <li>14.6 Special Precautions for Users</li> <li>14.5 Marine pollutant</li> <li>Environmental hazard</li> </ul>	Yes P Yes
14.6 Special Precautions for Users Special Provisions EmS-No	274, 335, 969 F-A, S-F
	Category A No information available No information available
IATA 14.1 UN number	
<ul><li>14.2 UN proper shipping name</li><li>14.3 Transport hazard class(es)</li><li>14.4 Packing group</li><li>Description</li></ul>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethofumesate) 9 III UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.5 Environmental hazard	(Ethofumesate), 9, III Yes
14.6 Special Precautions for Users Special Provisions ERG Code	A97, A158, A197 9L

\* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids

## SECTION 15: Regulatory information

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

Trade name / designation	Registration Number(s)	Date
Not Applicable	Not Applicable	Not Applicable

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### Persistent Organic Pollutants

Not applicable

#### 15.2. Chemical safety assessment

Chemical Safety Report

A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009

## **SECTION 16: Other information**

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

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
- H412 Harmful to aquatic life with long lasting effects

### Legend

SVHC: Substances of Very High Concern for Authorisation:

LegendSection 8: EXPOSURE 0TWATWA (time-weigCeilingMaximum limit	phted average)	OTECTION STEL *	STEL (Short Term Exposure Limit) Skin designation
Revision date	13-Jun-2023		
Reason for revision	SDS sections updated		

#### Abbreviations and acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

- ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- CAS Number Chemical Abstracts Service number
- EC Number EINECS and ELINCS Number
- EINECS European Inventory of Existing Commercial Substances
- ELINCS European List of notified Chemical Substances IATA - International Air Transport Association
- ICAO-TI Technical Instructions for the Safe Transport of Dangerous Goods by Air
- IMDG International Maritime Dangerous Goods
- LC50 Lethal Concentration to 50 % of a test population
- LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)
- OECD Organization for Economic Co-operation and Development
- PBT Persistent, Bioaccumulative and Toxic substance
- RID Regulations concerning the International Carriage of Dangerous Goods by Rail
- STOT Specific Target Organ Toxicity
- vPvB Very Persistent and Very Bioaccumulative

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

**Classification of the mixture** H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects Classification procedure Classification based on test data Classification based on test data

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### End of Safety Data Sheet