

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

## FOX

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Product Code(s) HRB00966-44 5975

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

1.1. Product identifier

## FOX

### 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

¥2	
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
Bifenox (ISO)	42576-02-3	255-894-7		39-43	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		M=1000 M=100	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- one	2634-33-5	220-120-9	613-088-00-6	<0.05	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	Skin Sens. 1 :: C>=0.05%		01-212076154 0-60-XXXX

	Skin Sens. 1	
	(H317)	
	Acute Tox. 4	
	(H302)	
	Aquatic Acut	e
	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	edical attention and special treatment needed
Note to doctors	Treat symptomatically.
<b>SECTION 5: Firefighting m</b> 5.1. Extinguishing media Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
5.1. Extinguishing media Suitable Extinguishing Media Unsuitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not scatter spilled material with high pressure water streams.
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5.1. Extinguishing media Suitable Extinguishing Media Unsuitable extinguishing media 5.2. Special hazards arising from the	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not scatter spilled material with high pressure water streams.

## **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 contai	nment 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

Chemical name	United Kingdom
Propylene Glycol	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 hydroxide	STEL: 2 mg/m <sup>3</sup>
1310-73-2	_

Derived No Effect Level (DNEL)No information available.Predicted No Effect ConcentrationNo information available.(PNEC)No information available.

8.2. Exposure controls	
Engineering controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment Eye/face protection	Tight sealing safety goggles.
Hand protection	Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact (recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).
Skin and body protection	Use suitable protective clothing and equipment if required, such as safety goggles certified to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water repellent woven coverall with 65% 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 advised if significant spillages cannot be contained.

# SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Property	<u>Values</u>	Method	<u>Remarks</u>	
Appearance				
Physical state	: Liquid			
Colour	: beige			
Odour	: Slight chlorine			
Odour threshold	: No data available			
рН	: 6.88-7.88	CIPAC MT 75.3	1 %	
Melting point / freezing point °C	: No data available			
Boiling point / boiling range °C	: No data available			
Flash point °C	: No data available			
Evaporation rate	: No data available			
Flammability (solid, gas)	: Not applicable			
Upper/lower flammability or	: No data available			
explosive limits				
Vapour pressure kPa	: No data available			
Vapour density	: No data available			
Relative density	: 1.13-1.23	OECD 109		
Solubility(ies) mg/l	: No data available			
Partition coefficient Log Pow	:		See Section 12 for additional	
-			Ecological Information	
Autoignition temperature °C	: 440	EEC A.15		
Decomposition temperature °C	: No data available			
Kinematic viscosity mm2/s 40 °C	: 88 - 580	OECD 114		
Surface tension	: No data available			
Particle Size	: Not applicable			
9.2. Other information				
Bulk density g/ml	: Not applicable			
9.2.1. Information with regards to physical hazard classes				
Explosive properties	: Not an explosive			

#### Oxidising properties

: Not oxidizing

# **9.2.2. Other safety characteristics** No information available

SECTION 10: Stability and reactivity 10.1. Reactivity Reactivity No information available. 10.2. Chemical stability Stable under normal conditions. Stability **Explosion data** Sensitivity to mechanical impact None. Sensitivity to static discharge None. 10.3. Possibility of hazardous reactions 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 None known based on information supplied. Incompatible materials

10.6. Hazardous decomposition products

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	<u>Values</u> : > 5000 : > 2000	<u>Species</u> Rat Rat	Method OECD 401 OECD 402	<u>Remarks</u>
Inhalation LC50 mg/l	: > 1.43	Rat	EPA-FIFRA 81-3	Maximum attainable concentration
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Not irritating to eyes	Rabbit	OECD 405	
Sensitisation	: Not a skin sensitiser	Guinea pig	OECD 406	
Chronic toxicity				
Germ cell mutagenicity Chemical name				
Bifenox (ISO)	: Not classified			
Carcinogenicity Chemical name				

Bifenox (ISO)	: Not Carcinogenic
Reproductive toxicity . Chemical name Bifenox (ISO)	: Not toxic for the reproductive system
STOT - Single Exposure Chemical name Bifenox (ISO)	: Not classified
STOT - Repeated Exposure Chemical name Bifenox (ISO)	: Not classified
Aspiration hazard Chemical name Bifenox (ISO)	: 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	:	<u>Values</u> 11 34.8 0.71	<u>Species</u> Oncorhynchus mykiss Daphnia magna D. Subspicatus	Method OECD 203 OECD 202 OECD 201	Remarks
<u>Chronic aquatic toxicity</u> Fish NOEC mg/l Crustacea NOEC mg/l Algae NOEC mg/l Other plants NOEC mg/l	:	Values 0.638 0.28 No data available No data available	<u>Species</u> Oncorhynchus mykiss Daphnia magna	Method OECD 204 OECD 202	<u>Remarks</u> 28d 21d
Terrestrial Toxicity Birds Oral LD50 mg/kg Chemical name Bifenox (ISO)	:	> 2000	Bobwhite quail	FIFRA 71-1	
Bees Oral LD50 µg/bee Chemical name Bifenox (ISO)	-	> 200		EPPO 170 (1992)	
12.2. Persistence and degradability Abiotic Degradation Water DT50 days Chemical name Bifenox (ISO) Soil DT50 days Chemical name		0.11			

Bifenox (ISO)	: 8.3		
Biodegradation Chemical name Bifenox (ISO)	: Not readily biodegradal	ble	
Bilenox (180)	. Not readily blodegradal	bie	
12.3. Bioaccumulative potential Partition Coefficient (n-octanol/water) Log Pow Chemical name	Values	Method	<u>Remarks</u>
Bifenox (ISO)	: 3.55-3.73	EEC A.8	20-25 ° C
Bioconcentration factor (BCF) Chemical name			
Bifenox (ISO)	: 1500		whole fish
12.4. Mobility in soil Adsorption/Desorption Chemical name	Values	Method	<u>Remarks</u>
Bifenox (ISO)	: 7143		KOC
<b><u>12.5. Results of PBT and vPvB assessment</u></b> The components in this formulation do not meet the criteria for classification as PBT or vPvB			
12.6. Endocrine disrupting proper	ties		
Endocrine disrupting properties	No information available.		
<b>12.7. Other adverse effects</b> No information available.			
SECTION 13: Disposal co	nsiderations		
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

# **SECTION 14: Transport information**

was used.

ADR	
14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenox (ISO))
14.3 Transport hazard class(es)	9
14.4 Packing group	111
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenox
	(ISO)), 9, III
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	274, 335, 601, 375
Classification code	M6
RID	
14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenox (ISO))

Waste codes should be assigned by the user based on the application for which the product

<ul> <li>14.3 Transport hazard class(es)</li> <li>14.4 Packing group</li> <li>Description</li> <li>Environmental hazard</li> <li>Special Precautions for Users</li> <li>14.5 Environmental hazard</li> <li>14.6 Special Precautions for Users</li> </ul>	9 III UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenox (ISO)), 9, III Yes Yes
Special Provisions	274, 335, 375, 601
Classification code	M6
IMDG	UN3082
14.1 UN number	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenox (ISO))
14.2 UN proper shipping name	9
14.3 Transport hazard class(es)	III
14.4 Packing group	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenox
Description	(ISO)) 0. III. Marina pollutant
<ul> <li>14.5 Environmental hazard</li> <li>14.6 Special Precautions for Users</li> <li>14.5 Marine pollutant <ul> <li>Environmental hazard</li> </ul> </li> <li>14.6 Special Precautions for Users <ul> <li>Special Provisions</li> <li>EmS-No</li> <li>IMDG Stowage and segregation</li> </ul> </li> <li>14.7 Maritime transport in bulk <ul> <li>according to IMO instruments</li> </ul> </li> </ul>	(ISO)), 9, III, Marine pollutant Yes P Yes 274, 335, 969 F-A, S-F Category A No information available No information available
IATA	UN3082
14.1 UN number	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenox (ISO))
14.2 UN proper shipping name	9
14.3 Transport hazard class(es)	III
14.4 Packing group	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bifenox
Description	(ISO)), 9, III
<ul><li>14.5 Environmental hazard</li><li>14.6 Special Precautions for Users</li></ul>	Yes
Special Provisions	A97, A158, A197
ERG Code	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

#### National regulations

Trade name / designation

Date

### **Registration Number(s)**

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

Chemical name	EU - Water Framework Directive (2000/60/EC)
Bifenox (ISO) - 42576-02-3	Priority substance
Chemical name	EU - Environmental Quality Standards (2008/105/EC)
Bifenox (ISO) - 42576-02-3	Priority substance

## 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

- H290 May be corrosive to metals
- H302 Harmful if swallowed
- H314 Causes severe skin burns and eye damage
- 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:

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Revision date 11-Jul-2023

Reason for revision	SDS sections updated
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#### 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 Nun	nber - Chemical Abstracts Service number
EC Numb	per - 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

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

Very Persistent and Very Bioaccumulative

### **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 Calculation method

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

#### Disclaimer

vPvB -

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