

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

## Mavrik

Revision date 10-Feb-2023 Print Date 10-Feb-2023 Version 1 Supersedes Date: 10-Feb-2023 ADM.04250.I.1.B Product Code(s) INS00027-44 9500525

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

1.1. Product identifier

# Mavrik

Other means of identification	
Pure substance/mixture	Mixture
Formulation type	EW

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

Recommended use	Insecticide; 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** 

National Chemical Emergency Centre (UK): Tel: 01865 407333 (24 hours)

# **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	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
Tau fluvalinate	102851-06-9	-	607-238-00-X	20 - 24	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		M = 1000 M = 1000	No data available
Hydrocarbons, C9, aromatics	-	918-668-5		3 - 4	Flam. Liq. 3 (H226) STOT SE 3 (H335) STOT SE 3 (H336) Asp. Tox. 1			01-211945585 1-35

					(H304) Aquatic Chronic 2 (H411) (EUH066)		
Methanol	67-56-1	200-659-6	603-001-00-X	0.2 - 0.5	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Liq. 2 (H225)	STOT SE 1 :: C>=10% STOT SE 2 :: 3%<=C<10%	No data available

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:	<b>First aid</b>	measures
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## 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 e	effects, both acute and delayed
Symptoms	None known.
4.3. Indication of any immediate med	dical attention and special treatment needed
Note to doctors	Treat symptomatically.
SECTION 5: Firefighting mo	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 the	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, inc	cluding 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
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>
Methanol 67-56-1	TWA: 200 ppm TWA: 266 mg/m <sup>3</sup> STEL: 250 ppm STEL: 333 mg/m <sup>3</sup> Sk*

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, 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	Values	<u>Method</u>	<u>Remarks</u>
Appearance			
Physical state	: Liquid		
Colour	: Grey to white		
Odour	: Slight		
Odour threshold	: No data available		
рН	: 5-6	CIPAC MT 75.2	solution (1%)
Melting point / freezing point °C	: No data available		
Boiling point / boiling range °C	: No data available		
Flash point °C	: >95	92/69/EEC A.9	Not determined
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	: 1.08-1.10	EEC A.3	
Solubility(ies) mg/l	: No data available		
Partition coefficient Log Pow	:		See Section 12 for additional
-			

Autoignition temperature °C Decomposition temperature °C Kinematic viscosity mm2/s 40 °C Surface tension Particle Size	: 455 : No data available : 257.4 : : Not applicable	92/69/EEC A.15	Ecological Information 20°C No data available
9.2. Other information			
Bulk density g/ml	:		
9.2.1. Information with regards to ph Explosive properties Oxidising properties	ysical hazard classes : Not an explosive : No data available		
<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 condition	S.	
Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge None.			
10.3. Possibility of hazardous reacti	ons		
Possibility of hazardous reactions	None under normal processing	J.	
10.4. Conditions to avoid			
Conditions to avoid	None known based on informa	ation supplied.	
10.5. Incompatible materials			
Incompatible materials	mpatible materials None known based on information supplied.		
10.6. Hazardous decomposition pro	10.6. Hazardous decomposition products		
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

	Values	Species_	Method	Remarks
Oral LD50 mg/kg	: 2020	Rat	EPA 1978	
Dermal LD50 mg/kg	: >2100	Rabbit	EPA 1978	
Inhalation LC50 mg/l	: >2.94	Rat	OECD 403	Maximum
				attainable

Skin corrosion/irritation		Non-irritating to the skin	Rabbit	EPA OPTS	concentration
Serious eye damage/eye irritation	:	Not irritating to eyes	Rabbit	EPA OPTS	
Sensitisation	:		Guinea pig	OECD 406	
Cononication	•		Cullica pig	0200 100	
Chronic toxicity					
Germ cell mutagenicity Chemical name					
Tau fluvalinate	:	Not classified			
Carcinogenicity					
Chemical name	•				
Tau fluvalinate	:	Not Carcinogenic			
		C C			
Reproductive toxicity					
Chemical name					
Tau fluvalinate	:	Not toxic for the reproductiv	e system		
STOT - Single Exposure					
Chemical name					
Tau fluvalinate		No data available			
	•				
STOT - Repeated Exposure					
Chemical name					
Tau fluvalinate	:	No data available			
Aspiration hazard Chemical name					
	_	No data available			
Tau fluvalinate	:	No data available			

## 11.2. Information on other hazards

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

11.2.2.	Other information	
Other a	adverse effects	

No information available.

# **SECTION 12: Ecological information**

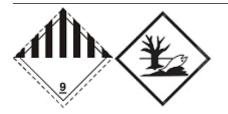
## 12.1. Toxicity

<u>Acute toxicity</u> Fish 96-hour LC50 mg/l Crustacea 48-hour EC50 mg/l Algae 72-hour EC50 mg/l	Values   : >0.01 <td: 0.00259<="" td="">   : 42</td:>	<u>Species</u> Oncorhynchus mykiss Daphnia magna Scenedesmus subspicatus	Method OECD 203 USEPA 660/3 OECD 201	<u>Remarks</u> Static
Other plants EC50 mg/l	: No data available	•		No data available
<u>Chronic aquatic toxicity</u> Fish NOEC mg/l Crustacea NOEC mg/l Algae NOEC mg/l Other plants NOEC mg/l	Values   : 0.5 X 10^-6   : 0.033 X 10^-6   : No data available   : No data available	-	<u>Method</u>	<u>Remarks</u>
Terrestrial Toxicity Birds Oral LD50 mg/kg Chemical name				

Tau fluvalinate	: >455		
Bees Oral LD50 μg/bee Chemical name Tau fluvalinate	: 12.6	OECD 213	3 OECD
		214	
12.2. Persistence and degradabilit	<u>y</u>		
Abiotic Degradation Water DT50 days			
Chemical name			
Tau fluvalinate	: 1.96	EPA-FIFRA 162	2-4
Soil DT50 days			
Chemical name			
Tau fluvalinate	: 31		
Biodegradation			
<b>Chemical name</b> Tau fluvalinate	• Not readily biodegradable		
Tau nuvaimate	: Not readily biodegradable		
12.3. Bioaccumulative potential	Male and		<b>D</b>
Partition Coefficient (n-octanol/water) Log Pow	Values	Method	<u>Remarks</u>
Chemical name			
Tau fluvalinate	: 7.02		
Bioconcentration factor (BCF)			
Chemical name			
Tau fluvalinate	: 1979		
12.4. Mobility in soil			<b>_</b> .
Adsorption/Desorption Chemical name	Values	Method	<u>Remarks</u>
Tau fluvalinate	: 750746		KOC
12.5. Results of PBT and vPvB ass The components in this formulation of		cation 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 local regulations.	with environmental legislation	on. Dispose of in accordance
Contaminated packaging	Improper disposal or reuse of th	is container may be dangero	ous 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

ADR 14.1 UN number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazard 14.6 Special Precautions for Users Special Provisions Classification code	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tau fluvalinate) 9 III UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tau fluvalinate), 9, III Yes 274, 335, 601, 375 M6
RID14.1UN number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing groupDescriptionEnvironmental hazardSpecial Precautions for Users14.5Environmental hazard14.6Special Precautions for UsersSpecial ProvisionsClassification code	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tau fluvalinate) 9 III UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tau fluvalinate), 9, III Yes Yes 274, 335, 375, 601 M6
IMDG14.1 UN number14.2 UN proper shipping name14.3 Transport hazard class(es)14.4 Packing group Description14.5 Environmental hazard14.6 Special Precautions for Users14.5 Marine pollutant Environmental hazard14.6 Special Precautions for Users14.6 Special Precautions for Users14.6 Special Precautions for Users Special Provisions EmS-No IMDG Stowage and segregation14.7 Maritime transport in bulk according to IMO instruments	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tau fluvalinate) 9 III UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tau fluvalinate), 9, III, Marine pollutant Yes P Yes 274, 335, 969 F-A, S-F Category A No information available No information available
IATA 14.1 UN number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazard 14.6 Special Precautions for Users Special Provisions ERG Code	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tau fluvalinate) 9 III UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tau fluvalinate), 9, III Yes 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

#### National regulations

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 contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH	Substance subject to authorisation per
	Annex XVII	REACH Annex XIV
Methanol - 67-56-1	69.	

#### 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

EUH066 - Repeated exposure may cause skin dryness or cracking

H225 - Highly flammable liquid and vapour

H226 - Flammable liquid and vapour

H301 - Toxic if swallowed

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H311 - Toxic in contact with skin

H315 - Causes skin irritation H331 - Toxic if inhaled H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness H370 - Causes damage to organs H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects H411 - Toxic 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 (Short Term Exposure Limit) STEL Ceiling Maximum limit value Skin designation **Revision date** 10-Feb-2023 **Reason for revision** SDS sections updated Abbreviations and acronyms ADR -European Agreement concerning the International Carriage of Dangerous Goods by Road European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADN -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 International Air Transport Association IATA -ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air IMDG -International Maritime Dangerous Goods Lethal Concentration to 50% of a test population LC50 -Lethal Dose to 50% of a test population (Median Lethal Dose) LD50 -OECD -Organization for Economic Co-operation and Development PBT -Persistent, Bioaccumulative and Toxic substance Regulations concerning the International Carriage of Dangerous Goods by Rail RID -STOT -Specific Target Organ Toxicity

vPvB - Verv Persistent and Verv 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