

SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Torero

Revision date 25-Jan-2023 Version 2 Supersedes Date: 25-Jan-2023

Product Code(s) HRB01010-44

Print Date 25-Jan-2023 FSG 01095 H 23061

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

1.1. Product identifier

Torero

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

<u>Supplier</u> 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]

Not Hazardous

Chronic aquatic toxicity Category 2 - (H411)

2.2. Label elements

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

Hazard pictograms

Revision date 25-Jan-2023



Signal word None

Hazard statements Not Hazardous H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

P391 - Collect spillage

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
Metamitron	41394-05-2	255-349-3	613-129-00-8	29 - 33	Acute tox. 4 (H302) Aquatic Acute 1 (H400)		M=1	No data available
Ethofumesate	26225-79-6	247-525-3	607-314-00-2	11 - 15	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-		-		< 2	Aquatic Chronic 3 (H412)			No data available

1,2-Benzisothiazolin-3-	2634-33-5	220-120-9	613-088-00-6	< 0.03	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		
					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 medical attention and special treatment needed

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

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 substance or mixture

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

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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

See Section 12 for additional Ecological Information. **Environmental precautions**

6.3. Methods and material for containment 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.

Clean contaminated objects and areas thoroughly observing environmental regulations. Prevention of secondary hazards

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information. Reference to other sections

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

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

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 ³			
	TWA: 10 mg/m ³			
	STEL: 450 ppm			
	STEL: 1422 mg/m ³			
	STEL: 30 mg/m ³			
Sodium hydroxide	STEL: 2 mg/m ³			
1310-73-2				

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

Property

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 protectionUse 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.

Method

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

Values

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9.2. Other information

Remarks

Bulk density g/ml

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

No information available. Reactivity

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge

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

Incompatible materials None known based on information supplied.

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

	Values	Species	Method	Remarks
Oral LD50 mg/kg	: > 2000	Rat	OECD 423	
Dermal LD50 mg/kg	: > 4000	Rat	OECD 402	
Inhalation LC50 mg/l	: > 1.46	Rat	OECD 403	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

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Metamitron : Not classified Ethofumesate Not classified

Carcinogenicity

Chemical name

Metamitron : Not Carcinogenic Ethofumesate : Not Carcinogenic

Reproductive toxicity .

Chemical name

Metamitron : Not toxic for the reproductive system Ethofumesate : Not toxic for the reproductive system

STOT - Single Exposure

Chemical name

Metamitron Not classified Ethofumesate Not classified

STOT - Repeated Exposure

Chemical name

: Not classified Metamitron Ethofumesate Not classified

Aspiration hazard Chemical name

Metamitron : Not classified Ethofumesate Not classified

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity	<u>Values</u>	Species	Method_	<u>Remarks</u>
Fish 96-hour LC50 mg/l	: 141	Oncorhynchus mykiss	OECD 203	
Crustacea 48-hour EC50 mg/l	: 62.4	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l	: 2.83	Scenedesmus subspicatus	OECD 201	
Other plants EC50 mg/l	: 4.36	Lemna gibba	OECD 221	7 days
Chronic aquatic toxicity	<u>Values</u>	<u>Species</u>	Method	Remarks
Fish NOEC mg/l	:			No data available
Crustacea NOEC mg/l	:			No data available
Algae NOEC mg/l	: 2.92	Scenedesmus subspicatus	OECD 201	
Other plants NOEC mg/l	: 0.305	Lemna gibba	OECD 221	7 days
Terrestrial Toxicity				

Birds Oral LD50 mg/kg

Chemical name

Metamitron : 1302 **OECD 401** Japanese quail Ethofumesate : > 2000 A. platyrhynchos **OECD 401**

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Bees Oral LD50 µg/bee

Chemical name

Metamitron : > 97.2 **OECD 213** Ethofumesate : > 50 Apis mellifera **OECD 213**

12.2. Persistence and degradability

Abiotic Degradation Water DT50 days

Chemical name

BBA IV: 5-1 Metamitron : 8.4 - 49.8 pH 5-8.04, 20 ° C

Ethofumesate : 208

Soil DT50 days

Chemical name

: 3.3 - 36.7 Metamitron pH 5.1-7.5 Ethofumesate : 37.8 Field

Biodegradation Chemical name

Metamitron Not readily biodegradable **OECD 301 D**

Not readily biodegradable Ethofumesate

12.3. Bioaccumulative potential

Partition Coefficient Method Values Remarks

(n-octanol/water) Log Pow **Chemical name**

Metamitron : 0.85 **OECD 107** Ethofumesate : 2.7 **OECD 107**

Bioconcentration factor (BCF)

Chemical name

Metamitron No data available Ethofumesate No data available

12.4. Mobility in soil

Adsorption/Desorption Values Method Remarks

Chemical name

Metamitron 112.8 KOC **KOC** Ethofumesate 118

12.5. Results of PBT and vPvB assessment

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 information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused Dispose of waste in accordance with environmental legislation. Dispose of in accordance

with local regulations. products

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

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

vas used.

SECTION 14: Transport information

<u>ADR</u>

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metamitron,

Ethofumesate)

14.3 Transport hazard class(es) 9 **14.4 Packing group** III

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Metamitron, Ethofumesate), 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. (Metamitron,

Ethofumesate)

14.3 Transport hazard class(es)914.4 Packing group

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Metamitron, Ethofumesate), 9, III

Environmental hazard Yes

Special Precautions for Users

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions 274, 335, 375, 601

Classification code M6

<u>IMDG</u>

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metamitron,

Ethofumesate)

14.3 Transport hazard class(es) 9
14.4 Packing group | | | |

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Metamitron, Ethofumesate), 9, III, Marine pollutant

14.5 Environmental hazard Yes

14.6 Special Precautions for Users
 14.5 Marine pollutant Penvironmental hazard Yes

14.6 Special Precautions for Users

Special Provisions 274, 335, 969 EmS-No F-A. S-F

IMDG Stowage and segregation Category A No information available

14.7 Maritime transport in bulk No information available

according to IMO instruments

IATA

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metamitron,

Ethofumesate)

14.3 Transport hazard class(es) 9
14.4 Packing group III

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Metamitron, Ethofumesate), 9, III

14.5 Environmental hazard Yes

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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:

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 25-Jan-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

Classification procedure

H411 - Toxic to aquatic life with long lasting effects

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