

## SAFETY DATA SHEET

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

**Goltix Titan** 

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Version 1

Product No HRB00992-44 H-0435-23064-RAII 23304 9503349 AG-QMM1-565 SC

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

**Goltix Titan** 

Pure substance/mixture Mixture

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

Recommended Use Herbicide

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Address ADAMA Agricultural Solutions UK Ltd

Unit 15, Thatcham Buisness Village Colthrop Way, Thatcham Berkshire RG19 4LW, UK: 01635 860555

Fax: 01635 861555

For further information, please contact

Email 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]

Hazardous to the Aquatic

**Environment - Chronic Hazard** 

Category 2 - (H411)

2.2. Label elements

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

Hazard pictograms

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Hazard Statements H411 - 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
No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixture

Chemical Name	Weight-%	CAS No	EC No	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	M-Factor	REACH Registration Number
Metamitron	42 - 48	41394-05-2	255-349-3	613-129-00-8	Acute Tox. 4 (H302)		-
					Aquatic Acute 1 (H400)	M=1	
Quinmerac (ISO)	2 - 5	90717-03-6	402-790-6	-	Aquatic Chronic 3 (H412)		-
1,2-Benzisothiazolin-3-	<0.5	2634-33-5	220-120-9	613-088-00-6	Acute Tox. 4 (H302)		-
one					Skin Irrit. 2 (H315)		
					Eye Dam. 1 (H318)		
					Skin Sens. 1 (H317)		
					Aquatic Acute 1 (H400)		

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

## **Section 4: FIRST AID MEASURES**

#### 4.1. Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). First aider: Pay attention to self-protection!.

**Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

a physician.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Consult a physician if necessary.

**Eye contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Ingestion Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

Self-protection of the first aider

Use personal protective equipment as required.

ose personal protective equipment as re

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 physicians**Treat symptomatically.

## **Section 5: FIRE-FIGHTING MEASURES**

#### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

No information available.

#### 5.2. Special hazards arising from the substance or mixture

No specific hazard known.

#### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus In the event of fire and/or explosion do not breathe fumes.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

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

#### **Personal precautions**

Use personal protective equipment as required.

### For emergency responders

Use personal protection recommended in Section 8.

#### 6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

#### 6.3. Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

#### 6.4. Reference to other sections

#### Other Information

See also section 8,13

#### Section 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

#### **General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

#### 7.3. Specific end use(s)

#### **Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

#### 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** Gloves made of plastic or rubber.

**Body Protection** Suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations** When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Appearance			
Physical state	: Liquid		
Color	: Off-white		
Odor	: characteristic		
Odor threshold	: No data available		
pH	: 3.2 - 4.2	CIPAC MT 75.3	solution (1 %)
Melting point/freezing point °C	:		Not Applicable
Boiling point/boiling range °C	:		Not Applicable
Flash point °C	<b>:</b> > 99	EEC A.9	
Evaporation rate	: Not Applicable		
Flammability (solid, gas)	: Not applicable for liquids		
Upper/lower flammability or	: No data available		
explosive limits			
Vapor pressure kPa	:		Not Applicable
Vapor density	: No data available		
Relative density	: 1.213 - 1.113	CIPAC MT 3.3	
Solubility(ies) mg/l	:		Not Applicable
Partition Coefficient	:		See Section 12 for more
(n-octanol/water) Log Pow			information
Autoignition temperature °C	:		No data available
Decomposition temperature °C	:		No data available
Kinematic viscosity mm2/s 40 °C	: 825	CIPAC MT 192	
Kinematic viscosity mm2/s 40 °C	: 825	CIFAC WIT 192	

**Explosive properties** : Not an explosive Oxidizing properties : Not oxidizing

9.2. Other information

Bulk density g/ml Not Applicable ----

**OECD 115** Surface tension mN/m : 46.9

## Section 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

None under normal processing.

#### 10.4. Conditions to avoid

Heat, flames and sparks.

## 10.5. Incompatible materials

No information available

#### 10.6. Hazardous decomposition products

None under normal use conditions.

## **Section 11: TOXICOLOGY INFORMATION**

## 11.1. Information on toxicological effects

**Acute toxicity** 

·		Values_	Species_	Method
Oral LD50 mg/kg	:	> 2000	Rat	OECD 423
Dermal LD50 mg/kg	:	> 2000	Rat	OECD 402
Inhalation LC50 mg/l/4h	:	> 5.57	Rat	OECD 403
Skin corrosion/irritation	:	Non-irritating to the skin	Rabbit	OECD 404
Serious eye damage/eye irritation	:	Not irritating to eyes	Rabbit	OECD 405
Respiratory/skin sensitization	:	Not a skin sensitizer	Guinea pig	OECD 406

## **Chronic toxicity**

Germ cell mutagenicity

**Chemical Name** 

Metamitron : Not classified Quinmerac (ISO) : Not classified

Carcinogenicity

**Chemical Name** 

Metamitron Not Carcinogenic Quinmerac (ISO) : Not Carcinogenic

Reproductive toxicity .

**Chemical Name** 

Metamitron : Not toxic for the reproductive system

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Remarks

Quinmerac (ISO) : Not toxic for the reproductive system

STOT - single exposure

**Chemical Name** 

Metamitron : Not available Quinmerac (ISO) : Not available

STOT - repeated exposure

Chemical Name

Metamitron : Not available Quinmerac (ISO) : Not available

**Aspiration hazard** Chemical Name

Metamitron : Not available Quinmerac (ISO) : Not available

## **Section 12: ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

## **Aquatic toxicity**

Acute toxicity	<u>Values</u>	Species	Method	Remarks
Fish 96-hour LC50 mg/l	: > 100	Oncorhynchus mykiss	OECD 203	
Crustacea 48-hour EC50 mg/l	: > 100	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l	: 3.77	P. subcapitata	OECD 201	
Other plants EC50 mg/l	: 2.09	Lemna gibba	OECD 221	
Terrestrial Toxicity				

Terrestrial Toxicity
Birds Oral LD50 mg/kg

**Chemical Name** 

Metamitron : 1302 Japanese quail OECD 401 Quinmerac (ISO) : > 2000 Bobwhite quail

Bees Oral LD50 µg/bee

**Chemical Name** 

Metamitron : > 97.2 OECD 213

**Values** 

Quinmerac (ISO) : > 108.51

#### 12.2. Persistence and degradability

Water DT50 days Chemical Name			
Metamitron	: 10.8 - 11.4	BBA IV: 5-1	pH 8, 20 ° C
Quinmerac (ISO)	:	OECD 111	Stable; pH 4,7,9

Soil DT50 days Chemical Name

**Abiotic Degradation** 

Metamitron : 2 - 45

Quinmerac (ISO) : 10.5 Field

Biodegradation Chemical Name

Metamitron : Not readily biodegradable OECD 301 D

Quinmerac (ISO) : Not readily biodegradable

#### 12.3. Bioaccumulative potential

Method

Remarks

Partition Coefficient Values Method Remarks

(n-octanol/water) Log Pow

Chemical Name

 Chemical Name

 Metamitron
 : 0.85
 OECD 107
 21 ° C

 Quinmerac (ISO)
 : </e>
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 OECD 117
 pH 7

**Bioconcentration factor (BCF)** 

**Chemical Name** 

Metamitron : Not available Quinmerac (ISO) : --- No data available

12.4. Mobility in soil

Adsorption/Desorption Values Method Remarks

**Chemical Name** 

 Metamitron
 : 122.3
 Koc

 Quinmerac (ISO)
 : 0.82
 Koc

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. Other adverse effects

No information available.

## **Section 13: DISPOSAL CONSIDERATIONS**

13.1. Waste treatment methods

Waste from residues/unused

products

Disposal should be in accordance with applicable regional, national and local laws and

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: TRANSPORTATION INFORMATION

IMDG/IMO

**14.1 UN/ID No** \* 3082

**14.2 Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Metamitron )

 14.3 Hazard Class
 9

 14.4 Packing Group
 III

 14.5 Marine pollutant
 Yes

14.6 Special precautions for user

14.7 Tunnel restriction code

RID/ADR

14.1 UN/ID No \* 3082

**14.2 Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Metamitron )

14.3 Hazard Class914.4 Packing GroupIII14.5 Environmental hazardYes14.6 Special precautions for user

ICAO/IATA

14.1 UN/ID No \* 3082

**14.2 Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Metamitron )

14.3 Hazard Class

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14.4 Packing Group

**14.4 Packing Group** III **14.5 Environmental hazard** Yes

14.6 Special precautions for user

14.7 Transport in bulk according to Not Applicable

Annex II of MARPOL 73/78 and the IBC Code



\* 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

#### 15.2. Chemical safety assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

## **Section 16: OTHER INFORMATION**

#### Full text of H-Statements referred to under sections 2 and 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

H411 - Toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

#### **List of 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

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

**Revision Note** Changes made to the last version are labeled with this sign \*\*\*.

Disclaimer

The information provided in this Material 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** 

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