



SAFETY DATA SHEET

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

Brevis

Revision Date 15-Dec-2015

Version 1

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23049 AG-M4-150 SG

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

1.1. Product identifier

Brevis

Synonyms Metamitron 150 SG
Pure substance/mixture Mixture

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

Recommended Use Fruit thinner
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]

Acute toxicity - Oral Category 4 - (H302)

Serious eye damage/eye irritation Category 1 - (H318)

Hazardous to the Aquatic Category 2 - (H411)

Environment - Chronic Hazard

2.2. Label elements

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

Hazard pictograms

**Signal word**

Danger

Hazard Statements

H302 - Harmful if swallowed
 H318 - Causes serious eye damage
 H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements

P102 - Keep out of reach of children
 P270 - Do not eat, drink or smoke when using this product
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 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

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	13-17	41394-05-2	255-349-3	613-129-00-8	Acute Tox. 4 (H302) Aquatic Acute 1 (H400)	M=1	-
calcium formate	77-86	544-17-2	208-863-7	-	Eye Dam. 1 (H318)		01-2119486476-24-0001

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. Immediately

consult an ophthalmologist and show this SDS or the label or the packaging.

Ingestion Rinse mouth. Drink plenty of water. Call a physician or poison control center immediately.

Self-protection of the first aider Use personal protective equipment as required.

4.2. Most important symptoms and effects, both acute and delayed **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

Wear self contained breathing apparatus for fire fighting if necessary

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Avoid contact with eyes and skin. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

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. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for 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 only with adequate ventilation. Use personal protective equipment as required. Use with local exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid generation of dust.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

7.2. Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep container tightly closed. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

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.

Body Protection

Suitable protective clothing, Apron, Gloves made of plastic or rubber.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

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>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Appearance				
Physical state		: Solid		
Color		: Off-white		
Odor		: Slight characteristic		
Odor threshold		: No data available		
pH		: 6.5 - 7.5	CIPAC MT 75.3	solution (1 %)
Melting point/freezing point	°C	: ----		Not Applicable
Boiling point/boiling range	°C	: No data available		
Flash point	°C	: ----		Not Applicable
Evaporation rate		: Not Applicable		
Flammability (solid, gas)		: Not highly flammable	EEC A.10	
Upper/lower flammability or explosive limits		: No data available		
Vapor pressure	kPa	: ----		Not Applicable
Vapor density		: No data available		
Relative density		: ----		Not Applicable

Solubility(ies) mg/l	: ----		Not Applicable
Partition Coefficient	:		See Section 12 for more information
(n-octanol/water) Log Pow			
Autoignition temperature °C	: 396	EEC A.16	
Decomposition temperature °C	: No data available		
Kinematic viscosity mm ² /s 40 °C	: Not Applicable		
Explosive properties	: Not an explosive	EEC A.14	
Oxidizing properties	: Not oxidizing	EEC A.17	

9.2. Other information

Bulk density g/ml	: 719	CIPAC MT 186	g/L, pour density
Surface tension mN/m	: ----		No data available

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**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: 300 - 2000	Rat	OECD 423	
Dermal LD50 mg/kg	: > 2000	Rat	OECD 402	
Inhalation LC50 mg/l/4h	: > 5.1	Rat	OECD 403	
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Risk of serious damage to eyes	Rabbit	OECD 405	
Respiratory/skin sensitization	: Not a skin sensitizer	Mouse	OECD 429	

Chronic toxicity

Germ cell mutagenicity
Chemical Name

Metamitron	: Not classified
Carcinogenicity	.
Chemical Name	
Metamitron	: Not Carcinogenic
Reproductive toxicity	.
Chemical Name	
Metamitron	: Not toxic for the reproductive system
STOT - single exposure	
Chemical Name	
Metamitron	: Not available
STOT - repeated exposure	
Chemical Name	
Metamitron	: Not available
Aspiration hazard	
Chemical Name	
Metamitron	: Not available

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity Toxicity

Aquatic toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Acute toxicity				
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	: 5.6	P. subcapitata	OECD 201	
Other plants EC50 mg/l	: 3.05	Lemna	OECD 221	

Terrestrial Toxicity

Birds Oral LD50 mg/kg				
Chemical Name				
Metamitron	: 1302	Japanese quail	OECD 401	
Bees Oral LD50 µg/bee				
Chemical Name				
Metamitron	: > 97.2		OECD 213	

12.2. Persistence and degradability Persistence and degradability

	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Abiotic Degradation			
Water DT50 days			
Chemical Name			
Metamitron	: 10.8 - 11.4	BBA IV: 5-1	pH 8, 20 °C
Soil DT50 days			
Chemical Name			
Metamitron	: 2 - 45		
Biodegradation			
Chemical Name			
Metamitron	: Not readily biodegradable	OECD 301 D	

12.3. Bioaccumulative potential Bioaccumulative potential

Partition Coefficient (n-octanol/water) Log Pow	Values	Method	Remarks
Chemical Name Metamitron	: 0.85	OECD 107	21 ° C

Bioconcentration factor (BCF)	Values	Method	Remarks
Chemical Name Metamitron	:		Not available

12.4. Mobility in soil Mobility in soil

Adsorption/Desorption	Values	Method	Remarks
Chemical Name Metamitron	: 122.3		Koc

12.5. Results of PBT and vPvB assessment 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 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	3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, 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	

RID/ADR

14.1 UN/ID No	3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metamitron)
14.3 Hazard Class	9
14.4 Packing Group	III
14.5 Environmental hazard	Yes
14.6 Special precautions for user	

ICAO/IATA

14.1 UN/ID No	3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metamitron)
14.3 Hazard Class	9
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



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

H318 - Causes serious eye damage

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Revision Note

*** - Change from previous version.

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

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