

# SAFETY DATA SHEET

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

**Brevis SG** 

Revision date 22-Jan-2024 Version 1 Supersedes Date: 22-Jan-2024

Product Code(s) HRB00993-27

**Print Date** 22-Jan-2024 ADM.04700.H.3.A (AG-M4-150 SG2)

9510084

### 1. Identification

Product identifier

### **Brevis SG**

Other means of identification

Synonyms Metamitron 150 SG

Formulation type SG
Registration Number(s) L11491
Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use Fruit thinner

Uses advised against No information available

Detailed information about the manufacturer, supplier, and/or importer

Supplier

ADAMA SOUTH AFRICA (PTY) LTD Ground Floor, Simeka House The Vineyards Office Estate 99 Jip de Jager Drive Bellville 7530

Emergency telephone number

Emergency Telephone +27 82 446 8946 (Griffon Poison Centre)

+27 86 155 5777 (Tygerberg Poison Information Centre) +27 86 100 6366 and +27 83 253 6618 (SPILL TECH)

E-mail address infocpt@adama.com

# 2. Hazard(s) identification

#### Classification of the substance or mixture

Acute toxicity - Oral	Category 4 - (H302)
Serious eye damage/eye irritation	Category 1 - (H318)
Chronic aquatic toxicity	Category 2 - (H411)

#### Label elements

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#### Signal word

Danger

#### Hazard pictograms



**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

P264 + P265 - Wash face, hands and any exposed skin thoroughly after handling. Do not

touch eyes

P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

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

P317 - Get medical help P330 - Rinse mouth P391 - Collect spillage

P501 - Dispose of contents/ container to an approved waste disposal plant

**Additional information** This product is classified as hazardous according to the criteria in South Africa - GHS

classification and labelling of chemicals - SANS10234 and the Regulations for Hazardous

Chemical Agents - 2021.

#### Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

# 3. Composition/information on ingredients

#### Substance

Not applicable

#### **Mixture**

### **Synonyms**

Metamitron 150 SG

Chemical name	CAS No	Weight-%	EC No	INTERNATIONAL GHS CLASSIFICATION	M-Factor
calcium formate	544-17-2	77-86	208-863-7	Eye Dam. 1 (H318)	
Metamitron	41394-05-2	13-17	255-349-3	Acute tox. 4 (H302) Aquatic Acute 1 (H400)	M=1
Sucrose	57-50-1	3	200-334-9		
Alcohols, C11-14-iso-, C13-rich, ethoxylated (7-15 EO)	78330-21-9	0.1	500-027-2	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	

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

#### Additional information

Note: The other ingredients do not cause or contribute towards the correct GHS classification of Brevis SG and are therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021, Regulation 14(b), not listed in the table above.

# 4. First-aid measures

Description of necessary first aid measures

**General advice** Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

Eye contact Get immediate medical advice/attention. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a physician.

For emergency responders

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms/effects, acute and delayed

**Symptoms** Burning sensation.

Indication of immediate medical attention and special treatment needed, if necessary

### 5. Fire-fighting measures

Suitable Extinguishing Media

surrounding environment.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the

ne No information available.

chemical

Not an explosive.

Specific/special fire-fighting measures

Specific/special fire-fighting

**Explosive properties** 

No information available.

measures

Special protective equipment and precautions for fire-fighters

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Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### 6. Accidental release measures

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

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Pick up and transfer to properly labeled containers. Methods for cleaning up

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

Other information Refer to protective measures listed in Sections 7 and 8.

### 7. Handling and storage

#### Preventive measures for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this

product. Handle in accordance with good industrial hygiene and safety practice. Avoid

generation of dust.

Precautions for safe handling

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do General hygiene considerations

not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up.

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

### 8. Exposure controls/personal protection

Control parameters

**Exposure guidelines** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

Chemical name	ACGIH TLV
Sucrose	TWA: 10 mg/m <sup>3</sup>
57-50-1	-

#### Appropriate engineering controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

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

**Hand protection** Wear suitable gloves.

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection**Wear suitable protective clothing.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained.

### 9. Physical and chemical properties

Information on basic physical and chemical properties

<u>Property</u> <u>Values</u> <u>Method</u> <u>Remarks</u>

Appearance
Physical state : Solid
Color : white
Odor : chemical

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 : ----

**Evaporation rate** : No data available

Flammability (solid, gas) : Not highly flammable EEC A.10

Upper/lower flammability or

explosive limits

Vapor pressure kPa : ----

Vapor density : No data available

Relative density : ---- Not applicable
Solubility(ies) mg/l : ---- Not applicable

No data available

Partition coefficient Log Pow : See Section 12 for additional Ecological Information

Autoignition temperature °C : 396 EEC A.16

**Decomposition temperature** °C : No data available

Kinematic viscosity mm2/s 40 °C : Not applicable

**Explosive properties** : Not an explosive District Section 2. Not oxidizing Properties : Not oxidizing Section 2. Not oxidizing Section 2. Sectin 2. Section 2. Section 2. Section 2. Section 2. Section 2. Secti

Surface tension : ---- No data available

Particle Size : Not applicable

Other information

Bulk density g/ml : 0.74 CIPAC MT 186

### 10. Stability and reactivity

Reactivity

**Reactivity** No information available.

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Not Applicable

Not applicable

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**Chemical stability** 

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid None known based on information supplied.

Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

### 11. Toxicological information

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 LC50	:	> 5.1	Rat	OECD 403	
Skin corrosion/irritation	:	Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	:	Serious eye damage/eye irritation	Rabbit	OECD 405	
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 classified

STOT - Repeated Exposure

Chemical name

Metamitron : Not classified

Aspiration hazard Chemical name

Metamitron : Not classified

### 12. Ecological information

#### **Ecotoxicity**

Aquatic toxicity
Acute toxicity

Values Species Method Remarks

Fish 96-hour LC50 mg/l Oncorhynchus mykiss > 100 **OECD 203** Crustacea 48-hour EC50 mg/l Daphnia magna > 100 **OECD 202** P. subcapitata Algae 72-hour EC50 mg/l **OECD 201** 5.6 Other plants EC50 mg/l 3.05 Lemna **OECD 221** 

Chronic aquatic toxicity <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish NOEC mg/l : No data available
Crustacea NOEC mg/l : No data available

Algae NOEC mg/l : 0.189 P.subcapitata OECD 201
Other plants NOEC mg/l : 0.256 Lemna minor OECD 221

Other plants NOEC mg/l : 0.256 Lemna minor

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

Abiotic Degradation Water DT50 days Chemical name

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

Soil DT50 days Chemical name

Metamitron : 3.3 - 36.7 pH 5.1-7.5

Biodegradation Chemical name

Metamitron : Not readily biodegradable OECD 301 D

Log Pow <u>Values</u> <u>Method</u> <u>Remarks</u>

Chemical name
Metamitron : 0.85 OECD 107

**Bioconcentration factor (BCF)** 

Chemical name

Metamitron : ---- No data available

Adsorption/Desorption Values Method Remarks
Chemical name

Metamitron : 112.8 KOC

### 13. Disposal considerations

Disposal 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.

### 14. Transport information

ADR

**14.1 UN number** UN3077

**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metamitron)

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

**Description** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Metamitron), 9, III

14.5 Environmental hazard Yes

14.6 Special Precautions for Users

**Special Provisions** 274, 335, 601, 375

Classification code M7

<u>RID</u>

**14.1 UN number** UN3077

**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metamitron)

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

Description UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Metamitron), 9, III

14.5 Environmental hazard

14.6 Special Precautions for Users

**Special Provisions** 274, 335, 375, 601

Classification code M7

**IMDG** 

**14.1 UN number** UN3077

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metamitron), Marine

pollutant

Yes

14.3 Hazard Class 9
14.4 Packing group III

Description UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Metamitron), 9, III, Marine pollutant

14.5 Marine pollutant P
Environmental hazard Yes

14.6 Special Precautions for Users

**Special Provisions** 274, 335, 966, 967, 969

**EmS-No** F-A, S-F

IMDG Stowage and segregation Category A SW23

14.7. Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

IATA

**14.1 UN number** UN3077

**14.2 UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metamitron)

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

**Description** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Metamitron), 9, III

14.5 Environmental hazard

14.6 Special Precautions for Users

Special Provisions A158, A179, A97, A197

ERG 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

### 15. Regulatory information

#### Safety, health and environmental regulations specific for the product in question

Registration Requirements: Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947). Pesticide Handling, Storage and Disposal Safety: SANS10206: 2020. Safety Data Sheet and Occupational Exposure Limit Requirements: Regulations for Hazardous Chemical Agents – 2021 – SA Occupational Health and Safety Act. SANS11014:2010. Control of and handling of poisonous/hazardous and non-poisonous/non-hazardous substances/chemicals in workplaces: Hazardous Substances Act, 1973 (Act No.15 of 1973). Occupational Health and Safety Act No. 85 of 1993.

### 16. Other information

Date of preparation of the SDS No data available

Revision date 22-Jan-2024

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

#### Key or legend to abbreviations and acronyms used in the safety data sheet

IMDG International Maritime Dangerous Goods (IMDG)
IATA International Air Transport Association (IATA)

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

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

#### HRB00993-27 - Brevis SG

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

#### The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

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

Classification procedure
Classification based on test data
Classification based on test data
Classification based on test data

#### **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**