



# SAFETY DATA SHEET

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

## Brevis 150 SC

Revision date 02-Aug-2022

Version 4 Supersedes Date: 02-Nov-2020

Product Code(s)

HRB00864-27

Print Date 02-Aug-2022

ADM.04700.H.2.A 9507966

## 1. Identification

### Product identifier

## Brevis 150 SC

### Other means of identification

|                        |                   |
|------------------------|-------------------|
| Synonyms               | Metamitron 150 SC |
| Formulation type       | SC                |
| Registration Number(s) | L9748             |
| 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<br>Ground Floor, Simeka House<br>The Vineyards Office Estate<br>99 Jip de Jager Drive<br>Bellville 7530 |
|----------|--|

### Emergency telephone number

|                     |  |
|---------------------|--|
| Emergency Telephone | +27 82 446 8946 (Griffon Poison Centre)<br>+27 86 155 5777 (Tygerberg Poison Information Centre)<br>+27 86 100 6366 and +27 83 253 6618 (SPILL TECH) |
|---------------------|--|

|                |               |
|----------------|---------------|
| E-mail address | SDS@ADAMA.COM |
|----------------|---------------|

## 2. Hazard(s) identification

### Classification of the substance or mixture

|                          |                     |
|--------------------------|---------------------|
| Acute aquatic toxicity   | Category 2 - (H401) |
| Chronic aquatic toxicity | Category 2 - (H411) |

### Label elements

|             |      |
|-------------|------|
| Signal word | None |
|-------------|------|

**Hazard pictograms****Hazard statements**

H411 - Toxic to aquatic life with long lasting effects

**Precautionary statements**

P102 - Keep out of reach of children  
 P273 - Avoid release to the environment  
 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 SC

| Chemical name | CAS No     | Weight-% | EC No     | INTERNATIONAL GHS CLASSIFICATION              | M-Factor |
|---------------|------------|----------|-----------|---|----------|
| Metamitron    | 41394-05-2 | 13-17    | 255-349-3 | Acute tox. 4 (H302)<br>Aquatic Acute 1 (H400) | M=1      |

**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 150 SC 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**

In case of accident or if you feel unwell, seek medical advice immediately (show the label where 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.

#### For emergency responders

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

#### Most important symptoms/effects, acute and delayed

**Symptoms** None known.

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

**Note to physicians** Treat symptomatically.

### **5. Fire-fighting measures**

#### Suitable 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.

#### Specific hazards arising from the chemical

**Specific hazards arising from the chemical** No information available.

**Explosive properties** No data available.

#### Specific/special fire-fighting measures

**Specific/special fire-fighting measures** No information available.

#### Special protective equipment and precautions for fire-fighters

**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** Ensure adequate ventilation.

#### Environmental precautions

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

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

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

---

|  |  |
|--|--|
| <b>Methods for cleaning up</b>         | Pick up and transfer to properly labeled containers.                                 |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations. |

## 7. Handling and storage

### Preventive measures for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

### Precautions for safe handling

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

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

## 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

### 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** 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).

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

**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.

**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.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

| <u>Property</u>                              | <u>Values</u>       | <u>Method</u> | <u>Remarks</u>                                       |
|--|---------------------|---------------|--|
| <b>Appearance</b>                            |                     |               |  |
| Physical state                               | : Liquid            |               |  |
| Color  | : white             |               |  |
| Odor   | : characteristic    |               |  |
| Odor threshold                               | : No data available |               |  |
| pH   | : 5.4 - 6.4         | CIPAC MT 75   |  |
| Melting point / freezing point °C            | : ----              |               | Not applicable                                       |
| Boiling point / boiling range °C             | : No data available |               |  |
| Flash point °C                               | : > 98              | CIPAC MT 12   |  |
| Evaporation rate                             | : No data available |               |  |
| Flammability (solid, gas)                    | : Not applicable    |               |  |
| Upper/lower flammability or explosive limits | : No data available |               |  |
| Vapor pressure kPa                           | : ----              |               | Not applicable                                       |
| Vapor density                                | : No data available |               |  |
| Relative density                             | : 0.98 - 1.08       | CIPAC MT 3    | 231 °C   |
| Solubility(ies) mg/l                         | : ----              |               | Not applicable                                       |
| Partition coefficient Log Pow                | :                   |               | See Section 12 for additional Ecological Information |
| Autoignition temperature °C                  | : ----              |               | No data available                                    |
| Decomposition temperature °C                 | : No data available |               |  |
| Kinematic viscosity mm <sup>2</sup> /s 40 °C | : ----              |               | No data available                                    |
| Explosive properties                         | : No data available |               |  |
| Oxidizing properties                         | : No data available |               |  |
| Surface tension                              | : ----              |               | No data available                                    |
| Particle Size                                | : Not applicable    |               |  |
| <b>Other information</b>                     |                     |               |  |
| Bulk density g/ml                            | : ----              |               |  |

## 10. Stability and reactivity

### Reactivity

Reactivity No information available.

### 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 None known based on information supplied.

### 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                   | : > 5000                     | Rat            | OECD 425      | Maximum attainable concentration |
| Dermal LD50 mg/kg                 | : > 2000                     | Rat            | OECD 402      |                                  |
| Inhalation LC50 LC50              | : > 0.84                     | 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      |                                  |
| Sensitization                     | : Not a skin sensitizer      | Guinea pig     | OECD 406      |                                  |

#### 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**

|                             | <u>Values</u>       | <u>Species</u> | <u>Method</u> | <u>Remarks</u>    |
|-----------------------------|---------------------|----------------|---------------|-------------------|
| Fish 96-hour LC50 mg/l      | : No data available |                |               | No data available |
| Crustacea 48-hour EC50 mg/l | : No data available |                |               | No data available |
| Algae 72-hour EC50 mg/l     | : No data available |                |               | No data available |
| Other plants EC50 mg/l      | : No data available |                |               | No data available |

##### **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 |                |               |                |

|                                      |   |                           |                |               |                              |
|--------------------------------------|---|---------------------------|----------------|---------------|------------------------------|
| <b>Algae NOEC mg/l</b>               | : | 0.189                     | P.subcapitata  | OECD 201      | Based on similar formulation |
| <b>Other plants NOEC mg/l</b>        | : | 0.256                     | Lemna minor    | OECD 221      | Based on similar formulation |
| <b>Terrestrial Toxicity</b>          |   |                           |                |               |                              |
| <b>Birds Oral LD50 mg/kg</b>         |   |                           |                |               |                              |
| <b>Chemical name</b>                 |   |                           |                |               |                              |
| Metamitron                           | : | 1302                      | Japanese quail | OECD 401      |                              |
| <b>Bees Oral LD50 µg/bee</b>         |   |                           |                |               |                              |
| <b>Chemical name</b>                 |   |                           |                |               |                              |
| Metamitron                           | : | > 97.2                    |                | OECD 213      |                              |
| <b>Abiotic Degradation</b>           |   |                           |                |               |                              |
| <b>Water DT50 days</b>               |   |                           |                |               |                              |
| <b>Chemical name</b>                 |   |                           |                |               |                              |
| Metamitron                           | : | 8.4 - 49.8                |                | BBA IV: 5-1   | pH 5-8.04, 20 °C             |
| <b>Soil DT50 days</b>                |   |                           |                |               |                              |
| <b>Chemical name</b>                 |   |                           |                |               |                              |
| Metamitron                           | : | 3.3 - 36.7                |                |               | pH 5.1-7.5                   |
| <b>Biodegradation</b>                |   |                           |                |               |                              |
| <b>Chemical name</b>                 |   |                           |                |               |                              |
| Metamitron                           | : | Not readily biodegradable |                | OECD 301 D    |                              |
| <b>Log Pow</b>                       |   |                           |                |               |                              |
|                                      |   | <u>Values</u>             |                | <u>Method</u> | <u>Remarks</u>               |
| <b>Chemical name</b>                 |   |                           |                |               |                              |
| Metamitron                           | : | 0.85                      |                | OECD 107      |                              |
| <b>Bioconcentration factor (BCF)</b> |   |                           |                |               |                              |
| <b>Chemical name</b>                 |   |                           |                |               |                              |
| Metamitron                           | : | ----                      |                |               | No data available            |
| <b>Adsorption/Desorption</b>         |   |                           |                |               |                              |
|                                      |   | <u>Values</u>             |                | <u>Method</u> | <u>Remarks</u>               |
| <b>Chemical name</b>                 |   |                           |                |               |                              |
| Metamitron                           | : | 112.8                     |                |               | KOC                          |

### 13. Disposal considerations

#### Disposal methods

|  |   |
|--|---|
| <b>Waste from residues/unused products</b> | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| <b>Contaminated packaging</b>              | Improper disposal or reuse of this container may be dangerous and illegal.                                      |

### 14. Transport information

#### ADR

|  |  |
|--|--|
| <b>14.1 UN number</b>                  | UN3082   |
| <b>14.2 UN proper shipping name</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metamitron) |
| <b>14.3 Transport hazard class(es)</b> | 9  |
| <b>Labels</b>                          | 9  |
| <b>14.4 Packing group</b>              | III  |
| <b>Description</b>                     | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, 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                | M6   |
| <b>RID</b>                         |  |
| 14.1 UN number                     | UN3082   |
| 14.2 UN proper shipping name       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metamitron)                 |
| 14.3 Transport hazard class(es)    | 9  |
| Labels                             | 9  |
| 14.4 Packing group                 | III  |
| Description                        | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metamitron), 9, III |
| 14.5 Environmental hazard          | Yes  |
| 14.6 Special Precautions for Users |  |
| Special Provisions                 | 274, 335, 375, 601   |
| Classification code                | M6   |

**IMDG**

|  |  |
|--|--|
| 14.1 UN number   | UN3082   |
| 14.2 UN proper shipping name   | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metamitron)                                   |
| 14.3 Hazard Class  | 9  |
| 14.4 Packing group   | III  |
| Description  | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, 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, 969  |
| EmS-No   | F-A, S-F   |
| IMDG Stowage and segregation   | Category A   |
| 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code | No information available   |

**IATA**

|                                    |  |
|------------------------------------|--|
| 14.1 UN number                     | UN3082   |
| 14.2 UN proper shipping name       | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metamitron)                 |
| 14.3 Transport hazard class(es)    | 9  |
| 14.4 Packing group                 | III  |
| Description                        | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metamitron), 9, III |
| 14.5 Environmental hazard          | Yes  |
| 14.6 Special Precautions for Users |  |
| Special Provisions                 | A97, A158, A197  |
| ERG Code                           | 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

## 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****Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed  
H400 - Very toxic to aquatic life

**Date of preparation of the SDS** No data available

**Revision date** 02-Aug-2022

**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  
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**

H401 - Toxic to aquatic life  
H411 - Toxic to aquatic life with long lasting effects

**Classification procedure**

Classification based on Calculation method  
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