



SAFETY DATA SHEET

CAPACIT GG

Reg. No./Nr. L 9695, Act/Wet No./Nr. 36 Of/Van 1947
N – AR 1592, W 130938

Section 1. Identification of the material and the supplier

Product: **CAPACIT GG**
Product Use: Herbicide
Restriction of Use: Refer to Section 15

Supplier: **AgriTech Bioscience (Pty) Ltd. t/a Carabiner**
Address: PO Box 1224
Isando, 1600
South Africa
TEL: 071 546 5077
www.carabiner.co.za

Emergency No: POISON CENTRE (UNITAS HOSPITAL) 012 664 1100
TYGERBERG 021 931 6129
RED CROSS 021 689 5227
RAPID SPILL RESPONSE 0800 775 3305
GRIFFON POISON CENTRE 082 446 8946

Date of SDS Preparation: 19 April 2023

Section 2. Hazards Identification

Classification of the substance or mixture

Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]

Aquatic Acute Cat. 1
Aquatic Chronic Cat. 1

For the full text of the H-Statements mentioned in this Section, see Section 16.

Label elements

Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]



Pictograms

Signal Word: **WARNING**

Hazard statement(s)

H400 – Very toxic to aquatic life

H410 – Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

General:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read carefully and follow all instruction.

Prevention:

P273 - Avoid release to the environment.

Response:

P301 + P317 – IF SWALLOWED: Get medical help

P391 - Collect spillage.

Storage:

-

Disposal:

P501 - Dispose of contents/container in accordance with local / regional / national / international regulations.

Supplemental Hazard Statements: none

2.3 Other

Other hazards

No other hazards known

Section 3. Composition / Information on Hazardous Ingredients

Granule

Tebuthiuron 200 g/kg

Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]

Ingredients	Concentration of hazardous ingredient in composition	CAS NUMBER.	Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]
Tebuthiuron	≥ 20%	34014-18-1	Acute Tox. Oral Cat. 4. H302 Aquatic Acute Cat. 1. H400 Aquatic Chronic Cat. 1. H410
Other non-hazardous ingredients	To balance	-	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4. First Aid Measures

Remove patient from exposed area. Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Routes of Exposure:

If in Eyes Flush eyes with plenty of clean, room temperature water for at least 15 minutes holding eyelids open. Remove contact lenses. Call a doctor for treatment advice. Obtain medical attention immediately if irritation persists. If irritation, pain, swelling, lacrimation, or photophobia persists after 15 minutes of irrigation, an ophthalmologic examination must be performed.

If on Skin Immediately remove contaminated clothing and flush body and clothes with large amounts of water. Wash thoroughly with soap and water (including hair, skin, and fingernails) Wash contaminated clothing before re-use. Seek medical assistance if irritation persists. Persons providing first aid must wear gloves to avoid self-contamination.

If Swallowed Seek medical attention. Do not induce vomiting unless instructed to do so by a medical practitioner. Never induce vomiting or give anything by mouth to a victim who is unconscious or is having convulsions.

If Inhaled Remove victim to fresh air. Keep patient calm. Monitor for respiratory distress. If a cough or breathing difficulty develops, evaluate for respiratory tract irritation, bronchitis, or pneumonitis. Seek medical attention if irritation develops or persists.

Most important symptoms and effects, both acute and delayed

No available data.

Treatment:

No specific antidote known. Treat symptomatically and supportively. Danger of lung aspiration should be weighed against toxicity when considering emptying the stomach.

Section 5. Fire Fighting Measures
--

Hazards from products	Fire may produce irritating or poisonous vapours (toxic oxides of carbon and nitrogen).
Suitable Extinguishing media	<p>Small fires: Carbon dioxide, dry powder, halon, or alcohol resistant foam.</p> <p>Large fires: Water spray or fog. Water spray or fog can also be used to cool unaffected stock. Avoid the accumulation of polluted run-off from the site. Remove the container from the fire if possible and without risk.</p>
Recommended protective clothing & Precautions for firefighters	<p>Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Keep upwind. Remove unaffected containers from the fire area if possible and without risk. Avoid inhaling hazardous vapours and fumes from burning materials. Do not scatter the material. Keep the material away from water sources and sewers. Do not touch the material and avoid breathing dusts and fumes. Fire may produce irritating or poisonous vapours (toxic oxides of carbon and nitrogen). Eliminate all ignition sources in the immediate area.</p> <p>Additional provisions: Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. In the event of a fire, wear full protective clothing and self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode.</p> <p>Personal protective equipment: Full protective clothing and self-contained breathing apparatus and turnout gear. For personal protection see Section 8.</p>

Section 6. Accidental Release Measures

Personal precautions:

Avoid contact with skin and eyes. Do not breath in dusts or fumes. For personal protection see Section 8.

Environmental precautions:

Do not contaminate waterways, drains and groundwater. If contamination of waterways, drains, rivers, or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately.

Spill and Disposal procedures:**Cleaning procedure:**

Do not eat, drink, or smoke during the clean-up process. Clear area of unprotected personnel. Wear protective gear: goggles. Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Sections 7 and 8.

Small spills: Sweep up the material and place the material into a clean, dry, correctly labelled hermetically sealed containers and dispose of according to local regulations. Flush the spilled area with water but do not flush the spilled product into drains or any water system.

Large spills: Contain the spilled material for later disposal. Collect waste into suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and a detergent, while observing environmental regulations.

Waste Disposal: Do not flush any spilled material into drains. Keep spectators away. Ensure that the contaminant does not come into contact with any desirable vegetation. If the spill area is on any ground near valuable plants or trees, remove the top 50 mm of soil after the initial clean-up. Used absorbent material and washings should be stored in labelled, sealable containers until these can be disposed of according to local regulations. Open burning or dumping of this material is prohibited.

Container Disposal: Refer to the product label for instructions. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Do not transport if this container is damaged or leaking.

Reference to other sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

Section 7. Handling and Storage
--

Precautions for Handling:

KEEP OUT OF REACH OF CHILDREN and animals. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. After work, rinse gloves and remove protective equipment. Wash hands thoroughly with soap and water after handling, and before eating, tobacco use, drinking, or using the toilet. Wash contaminated clothing before re-use and separate from household laundry.

Precautions for Storage:

Store in compliance with local regulations. Store in original container only in an isolated, well-ventilated, cool, dry, secure, shaded area away from foods, animal feeds and water supplies. Protect from heat, open flames, other sources of ignition, moisture, and direct sunlight. Avoid cross contamination with other pesticides and fertilisers. Keep under lock and key out of reach of children, animals, and unauthorised persons. Store away from incompatible substances. Store at a temperature not exceeding 32 °C.

Do not leave the product in the applicators for extended periods of time.

Specific end use(s): Use only according to the label.

Section 8	Exposure Controls / Personal Protection
------------------	--

Occupational exposure limits:

This product contains no ingredients with a known occupational exposure limit.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering Controls / Industrial Hygiene

Comply with occupational safety, environmental, fire and other applicable regulations.

It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

Personal Protection Equipment

Eyes	Safety goggles with side shields, or face shield.
Hands	Suitable synthetic chemically resistant gloves.
Skin	Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance. Respiratory protection: Respirator with filter for organic vapour.
Respiratory	An approved respirator suitable for protection from dusts and mists of pesticides is adequate. The limitations of the respirator as specified by the approving agency and the manufacturer must be observed.
General	Where there is any possibility that an employee’s eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use. Females of childbearing age should not come into contact with the product. Keep away from food, drink, and animal feedstuffs. No eating, drinking, or smoking during use. Wash hands and face before breaks and after work. Potentially fatal if inhaled. When handling wear full

	<p>protective clothing such as gloves, hat, coat, and trousers (worn outside rubber boots). Suitable or appropriate respiratory and eye protection should also be worn.</p> <p>The use of a skin barrier cream is useful to give additional skin protection.</p>
--	--

Section 9 Physical and Chemical Properties

Appearance	Granule
Colour	Brownish
Odour	Characteristic
Odour Threshold	No data available
pH	5-9
Boiling/Melting Point	No data available
Freezing Point	No data available
Flash Point	No data available
Flammability	Not flammable
Upper and Lower Explosive Limits	No data available
Vapour Pressure	No data available
Vapour Density	No data available
Density	Not applicable
Water Solubility	Not applicable
Partition Coefficient:	No data available
Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Particle Characteristics	No data available
Surface tension	No data available

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal use and standard conditions. Stable for 24 months. Stable in aqueous media between pH 5 and 9. Hydrolysed at higher temperatures by strong alkalis and strong acids.
Possibility of hazardous reactions	No decomposition if stored and handled as indicated. Thermal decomposition may release toxic oxides of carbon, nitrogen, and sulphur.
Conditions to Avoid	Protect from extreme temperatures, direct sunlight, open flames, and sources of ignition.
Incompatible Materials	Always store in original container.
Hazardous Decomposition Products	None under normal storage and use conditions. Heating can release vapours or cause container to burst. Combustion products are toxic and/or irritant.

Section 11 Toxicological Information

Acute Effects:

Product Name: CAPACIT GG
Date of SDS: 19 April 2023

Oral	GHS: Not classified
Dermal	GHS: Not classified
Inhalation	GHS: Not classified
Eye	GHS: Not classified
Skin	GHS: Not classified

Chronic Effects:

Carcinogenicity	GHS: Not classifiable as to its carcinogenicity to humans.
Reproductive Toxicity	GHS: Not classified
Germ Cell Mutagenicity	GHS: Not classified
Aspiration	GHS: Not classified
STOT/SE	GHS: Not classified
STOT/RE	GHS: Not classified

Section 12. Ecotoxicological Information

<p>Ecological effects information</p>	<p>Aquatic acute toxicity:</p> <p>Formulated product: Based on available data of components. GHS: Aquatic Acute Cat. 1. GHS: Aquatic Chronic Cat. 1</p> <p>Birds:</p> <p>Tebuthiuron: Acute oral LD₅₀ for chickens, bobwhite quail and mallard ducks >500 mg/kg.</p> <p>No data available for the formulated product</p> <p>Earthworms: Tebuthiuron: No data available</p> <p>No data available for the formulated product</p> <p>Bees: LD₅₀ µg/bee</p> <p>Tebuthiuron: >100 (contact). Not toxic to bees.</p> <p>No data available for the formulated product</p>
<p>Persistence and degradability</p>	<p>Information based on Tebuthiuron active: Animals The major metabolites in mammals were formed by N-demethylation of the substituted urea sidechain (D. M. Morton & D. G. Hoffman, J. Toxicol. Environ. Health, 1976, 1, 757-768).</p>

	<p>Plants In plants, the principal metabolic pathways involve N-demethylation and hydroxylation of the tert-butyl sidechain.</p> <p>Soil/Environment Some microbial breakdown occurs in soil, but this is not the predominant mode of degradation. Loss due to photodecomposition and volatilisation is negligible. Half-life in soil is considerably greater in soils with low moisture content, and in high organic soils. Adsorption Kf values range from 0.11 in sand (pH 7.7, o.m. 0.5%) to 1.82 in clay loam (pH 6.9, o.m. 2.0%).</p> <p>Tebuthiuron is highly persistent in soil. Reported field half-lives are from 12 to 15 months in areas with over 40 inches annual rainfall, with longer half-lives expected in drier areas or in soils with high organic matter content. Material can potentially penetrate soil and reach ground water. No appreciable volatilization from water to air is expected.</p> <p>Biodegradability: No data available.</p>
Bioaccumulation	Tebuthiuron: Bioaccumulation: No data available. Bioaccumulation is unlikely.
Mobility in Soil	Tebuthiuron is highly persistent in soil. Reported field half-lives are from 12 to 15 months in areas with over 40 inches annual rainfall, with longer half-lives expected in drier areas or in soils with high organic matter content. Material can potentially penetrate soil and reach ground water. No appreciable volatilization from water to air is expected.
Other adverse effects	<p>This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.</p> <p>Tebuthiuron is highly persistent in soil.</p>
Precautions:	Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

In accordance with local and national regulations. Hydrolysis under alkaline conditions is a suitable method of disposal of small quantities of the product. Prior to disposal of the resultant waste, the material must be analysed in order to ensure that the active ingredient has been degraded to a safe level. This product and its container must be disposed of by a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations.

Do not dispose into, or allow contact with, municipal sewerage systems or open water bodies. Do not bury.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible. If containers cannot be recycled, they should be disposed of together with the waste chemical

Do not reuse empty containers. Empty containers retain product residue. Triple rinse, or equivalent, empty container, return rinse water to dilution mixture, and dispose of dilution mixture as a hazardous waste if it cannot be disposed of by use according to label instructions. Consult provincial environment ministry for advice on waste disposal. Industrial/commercial waste may be handled at licensed facilities only. Waste shipments must be securely packaged and properly labelled. Only licensed carriers may be used for transport. If recycling, close container and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and take to a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations for disposal.

Special precautions during disposal:

Waste resulting from the use of this product cannot be reused or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and take to a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations for disposal.

If on-site container disposal is necessary, triple rinse empty container with water, add rinsate to the spray tank. Puncture top, sides and bottom, crush, and store appropriately until it can be taken to a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations for disposal.

Empty containers and product should not be burnt.

Section 14 Transport Information**Rail/road (RID/ADR):**

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tebuthiuron 20%)
UN number	3077
Class	9
Packing group	III
Environm. Haz. Mark	Environmentally hazardous

Sea (IMDG code):

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tebuthiuron 20%)
UN number	3077
Class	9
Packing group	III
Marine pollutant	Yes

Air (ICAO/IATA):

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Tebuthiuron 20%)
UN number	3077
Class	9
Packing group	III
Environm. Haz. Mark	Environmentally hazardous

Section 15 Regulatory Information**Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not available.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

Section 16 Other Information**Full text of H-Statements referred to under sections 2 and 3.**

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

The information herein is given in good faith, but no warranty, express or implied is made.

Issue Date:

19 April 2023

Review Date: 19 April 2028