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SAFETY DATA SHEET

This Safety Data Sheet was created pursuant to the requirements of:
The Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

BROMOTRIL P 500 SC

Revision date: 28-June 2023

Version: 4

Supersedes Date:

26-May-2022

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1. Product and Company Identification

Identification of the product/preparation

Product Name	BROMOTRIL P 500 SC
Trade Name/Synonyms	Bromoxynil 500 SC
Registration Number	L7019
Product Description and Formulation Type	A suspension concentrate herbicide
Active Ingredient	Bromoxynil.

Formula	C ₇ H ₃ Br ₂ NO
CAS Number	1689-84-5

Supplier, Manufacturer, and/or Importer

Supplier

Company Name	ADAMA SOUTH AFRICA (PTY) LTD
Address	Ground Floor, Simeka House The Vineyards Office Estate 99 Jip de Jager Drive Belville 7530
Phone Number	+27 21 982 1460
Web-Address	www.adama.com

Emergency Phone Numbers

Nature of Emergency	Emergency Operator	Telephone Number
24 Hour Poisoning Emergency Helplines – National Advisory Bodies	Griffon Poison Information Centre	+27(0)82 446 8946
	Tygerberg Poison Information Centre:	+27(0)861 555 777
Spill Response and Transport Incidents	SPILL TECH®	+27(0)86 100 0366; +27 (0)83 253 6618
Product Properties and Hazards	ADAMA South Africa (Pty) Ltd	+27(0)21 982 1460

Relevant identified uses of the product and uses advised against

BROMOTRIL P 500 SC is a selective suspension concentrate contact herbicide for the post-emergence control of certain broadleaf weeds. The product should not be used for any other purpose or in any other manner contrary to the information supplied on the product label.

2. Hazard(s) Identification

Classification of the substance or mixture

According to the criteria in South Africa - GHS classification and labelling of chemicals – SANS10234 and the Regulations for Hazardous Chemical Agents – 2021.

GHS Classification:

Hazard Class	Category	Hazard Statement Number
Acute Toxicity, Oral	3	H301
Respiratory/Skin Sensitization	1	H317
Acute Toxicity, Inhalation	2	H330
Reproductive Toxicity	2	H361d
Aquatic Toxicity, Acute	1	H400
Aquatic Toxicity, Chronic	1	H410

Label Elements

Pictograms:



Signal Word:

Danger

Hazard Statements:

Statement Number	Hazard Statement
H301	Toxic if swallowed.
H317	May cause allergic skin reaction.
H330	Fatal if inhaled.
H361d	Suspected of damaging the unborn child.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

General -

Statement Number	Precautionary Statement
P101	If medical advice is needed, have product label or container at hand.
P102	Keep out of reach of children.

Prevention -

Statement Number	Precautionary Statement
P230	Obtain, read, and follow all safety instructions before use.
P260	Do not breathe fumes/ mist/ vapours or spray.
P264	Wash hands and face thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, and eye and face protection.
P284	Wear respiratory protection.

Response –

Statement Number	Precautionary Statement
P316	Get emergency medical help immediately.
P318	IF exposed or concerned, get medical advice.
P321	Specific treatment – see the information on the label and Section 4 of this SDS.
P330	Rinse mouth.
P391	Collect spillage.
P301 + P316	IF SWALLOWED: Get emergency medical help immediately.
P302 + P352	IF ON SKIN: Wash with plenty of water under the safety shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333 + P317	If skin irritation or rash occurs: Get medical help.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Storage –

Statement Number	Precautionary Statement
P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep containers tightly closed.

Disposal -

Statement Number	Precautionary Statement
P501	Dispose of contents/container to a licensed waste facility and in accordance with local and national regulatory requirements.

Other Hazards

None known for the product.

3. Composition/Information on Ingredients

Mixture

Common Name:	BROMOTRIL P 500 SC
IUPAC/Chemical Name-Active ingredient:	3,5-Dibromo-4-hydroxybenzoxynitrile
Chemical Family:	Benzoxynitrile
Formulation:	Bromoxynil 500g/L – Suspension concentrate

Ingredients with Hazard Concerns (GHS)

According to UN GHS criteria (9th Edition of the Purple Book).

Hazardous Component – Chemical Name	CAS Number	Weight - %	International GHS Classification
Bromoxynil	1689-84-5	30 -60%	Acute Toxicity, Oral, Category 3. Acute Toxicity, Inhalation, Category 2. Skin Sensitization, Category 1. Reproductive Toxicity, Category 2. Aquatic Toxicity, Acute, Category 1. Aquatic Toxicity, Chronic, Category 1. M-Factor - Aquatic Acute: 10. M-Factor - Aquatic Chronic: 10.
Ethane -1,2-diol (monoethylene glycol)	107-21-1	<10%	Acute Toxicity, Oral, Category 4. STOT RE, Category 2.

NOTE: The other ingredients do not cause or contribute toward the correct GHS classification of BROMOTRIL P 500 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 First-aid Measures

General Advice

Provide this SDS to medical personnel for treatment. Emergency personnel should wear protective clothing appropriate to the type and degree of contamination.

Remove contaminated clothing and move the affected person away from the contamination area. Keep the person warm, calm, and comfortable. First Aid personnel should pay attention to their own safety.

Eye Contact

Rinse/flush the eyes gently with water from the eye wash fountain for several minutes (at least 15 minutes), while holding the eyelids apart. Check for and



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remove contact lenses if easy to do so. Continue rinsing. Obtain medical attention if irritation occurs and persists.

Skin Contact

Remove all contaminated clothing and shoes. Immediately rinse the skin with plenty of water for 15 to 20 minutes under the safety shower. Wash contaminated clothing before re-use. Obtain medical attention.

Inhalation

Remove the affected victim from exposure to an area with fresh air. Keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediately obtain medical attention.

Ingestion

Obtain immediate medical attention or call a poison control centre for treatment advice. If conscious, rinse mouth thoroughly with water. Drink plenty of water. Never give anything by mouth to an unconscious or convulsing person. Do not induce vomiting unless directed to do so by a medical professional. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits.

Emergency Responders

Use Personal Protective equipment as required.

Most important symptoms/effects, acute and delayed

Suspected of harming the unborn child.

Indication of any immediate medical attention and special treatment needed

Notes to physician:

Treat symptomatically and supportively.

5. Fire-Fighting Measures

Suitable (and unsuitable) extinguishing media

For small fires use dry chemical, carbon dioxide, or water spray.
For large fires use water spray, water fog or alcohol resistant foam. Contain fire control water for later disposal.
NOTE: Use water in flooding quantities as fog. Solid streams of water may be ineffective. Do not use high volume water jets due to potential contamination.

Specific hazards arising from the chemical including thermal decomposition products

The product is and contains a sensitizer. May cause sensitization by skin contact. Non-combustible, but fires involving the product may produce irritating or poisonous vapours: carbon dioxide, carbon monoxide, bromine compounds, cyanides, and oxides of nitrogen (NO, NO₂). Runoff may pollute waterways.

Special protective equipment and precautions for fire-fighters

Firefighters must wear emergency equipment including positive pressure self-contained breathing apparatus with a full-face mask. Remove unaffected containers from fire area if possible.

Additional provisions

Stay at maximum distance. Act in accordance with the site's Internal Emergency Plan and the Workplace Specific Procedures for actions to be taken after an accident or other emergencies.
Keep container cool by spraying with water.



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6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

As an immediate precautionary measure, isolate spill, or leak area in all directions for at least 10 meters for liquids. Do not breathe in fumes/vapour/spray and avoid contact with eyes, skin and clothes. Do not touch or walk through spilled material as it could be slippery when spilt. Contain spills if it can be done without risk and clean-up immediately. Highly toxic, may be fatal if inhaled, swallowed, or absorbed through skin. Wear appropriate protective clothing recommended in Section 8 of the SDS.

Environmental precautions

Prevent spillage or further leakage if safe to do so. Do not allow the spilt product to enter water courses and drains and avoid contact with soil. Do not allow the spilt product to spread to other areas - keep the spilt material contained and isolated. Report spills and releases as required to appropriate authorities if the spilt product has caused environmental pollution (sewers, water ways, soil, or air). Contaminated soil layers must be dug out and disposed of as hazardous waste. DO NOT GET WATER INSIDE CONTAINERS.

Methods for cleaning up

For small spills, sweep up with damp absorbent material. Place into a labelled waste container with a shovel and cover for subsequent disposal. Dispose of collected spilt material as hazardous waste. Clean the contaminated surface with water to remove any residues of the spilt product. Keep the wash water out of drains, sewers, and waterways.

For large spills, do not wash away into sewers. Contain/dyke or cover to prevent dispersal using absorbent socks, pillows or pads supplied in a spill kit. Collect the spilt product and place it into suitable labelled containers for proper disposal as hazardous waste.

Reference to other SDS sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

7. Handling and Storage

Precautions for safe handling

Always provide good ventilation in the work area. Prevent contact with eyes, skin, and clothing. Do not breathe in vapours/spray mist. Wear protective clothing and equipment during handling as described in Section 8 of the SDS. Do not eat or drink during use. Wash the hands and face thoroughly with soap after handling. Keep containers closed when not in use. Do not permit smoking in use or storage areas. Locate emergency showers and eye-rinsing facility near the



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work/handling area. Maintain good normal industrial hygiene and housekeeping practices in areas where the product is used/handled. Remove contaminated clothing immediately if the product gets inside. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of work area and work clothing is recommended. Keep unprotected persons away from the area where the product is being applied. Handle the product only in closed system or provide appropriate exhaust ventilation.

Conditions for safe storage, including any incompatibilities

The entrance to storage facilities should be granted only to appropriately trained personnel. Always store locked up. Keep containers tightly closed when not in use and keep the product only in the original container. Check storage containers regularly for leaks. The formulation is stable if stored well ventilated, out of direct sunlight, cool and free of moisture and high humidity. Avoid temperatures above 40°C. Keep out of reach of children, uninformed persons, and animals. Protect containers from physical damage. Do not contaminate water, food, or feed by storage or disposal. Avoid cross contamination with other agricultural products. Store away from incompatible materials like strong oxidising agents. It is recommended to have appropriate spill control kits equipped with absorbent material near storage areas (see Section 6). Store in accordance with national and local regulations.

8. Exposure Controls and Personal Protection

Components with workplace control parameters – National Occupational Exposure Limits

This product, as supplied, contains mono ethylene glycol for which an occupational exposure limit has been established by the South African Department of Labour and Employment.

Component	Type	Control Parameter	Update	Basis
Mono ethylene glycol	OEL-eight-hour TWA	50 ppm – Vapour Fraction	2021	South African RELs*
	OEL – STEL/C	100 ppm – Vapour Fraction	2021	South African RELs*

- *REL: Recommended Exposure Limit.
- OEL- eight-hour TWA: Occupational Exposure Limit – Time Weighted Average. Calculated over an eight-hour working day, for a five-day working week.
- OEL-STEL/C: Occupational exposure limit – short-term exposure limit, ceiling limit



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Appropriate engineering controls

Ventilation required. Use with local exhaust ventilation to maintain airborne concentrations and exposure as low as possible and within the legislated exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

Personal Protective Equipment

Respiratory protection:

During spraying, mixing, and handling, an approved respirator (full face mask) with a particulate filter and an organic vapour cartridge or supplied air respirator should be used. Institute a respiratory protection program that includes the selection, fit testing, training, maintenance, and inspection of the respiratory equipment. Consult with respirator manufacturer to determine respirator selection, use and limitations. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

Skin and hand protection:

Select skin and hand protection based on the task being performed and the risks involved with the task.
Impervious chemical resistant gloves recommended for hand protection (e.g., butyl rubber, nitrile rubber, etc.). The gloves should be replaced immediately in case of damage or signs of wear.
Impervious coveralls, apron, shoes, and socks as required to prevent skin contact and contamination of personal clothing. Overalls must be buttoned to the neck and sleeves worn over the gloves.

Eye/face protection:

Safety eyewear compliant with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, or vapour. Wear safety glasses with side shields (or goggles) to prevent contact with eyes and face from liquid and spray.

General safety and hygiene measures:

The measures appropriate for a particular worksite depend on how this product is used and on the extent of exposure. Ensure that control systems are properly designed and maintained.
Handle the product in accordance with good industrial hygiene and safety practice. An eye wash fountain and safety showers should be available and easily accessible.
Keep the product away from food, drink, and animal feeding stuffs.
Wash the hands and/or face before breaks, eating, smoking, or using the lavatory and at the end of the shift/working period.

Environmental exposure controls

In accordance with the local legislation for the protection of the environment, it is recommended to avoid environmental spillage or releases of both the product and its container.

9. Physical and Chemical Properties

Unless otherwise stated, the data is applicable to the formulated product.

Physical or Chemical Property		Value	Test Method or Remarks
Appearance	Appearance/physical state	Liquid	



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	Odour characteristics	Faint odour	
	Colour	White	
Volatility	Boiling point (°C)	No data available	
	Vapour pressure (mPa) at 20°C	<1 at 20°C	Bromoxynil (ISO)
	Evaporation Rate at 20 °C	No data available	
Product Descriptors	Solubility in water (mg/L at 25 °C)	130 mg/l	Bromoxynil (ISO)
	Decomposition temperature (°C)	No data available	
	Melting point (°C)	No data available	
	pH	3.0 – 4.5	
	Relative Density	1.28 – 1.32	
	Density (at 20°C)	1,30 +- 0,02 g/l	
	Specific Gravity	1.09 -1.10	
	Log P octanol / water at 20°C	<2	Bromoxynil (ISO)
Flammability	Flammable (Y/N)	Not flammable	
	Flash point (°C)	>90	
	Flammable limits-LEL	No data available	
	Flammability limits -UEL	No data available	
	Auto-ignition Temperature (°C)	No data available	

Other Hazard Information

None known for the product.

10. Stability and Reactivity

Reactivity	The product is not reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure. Decomposes at elevated temperatures.
Chemical Stability	Hazardous polymerization will not occur. Stable under normal ambient conditions of use, storage, and transport.
Possibility of Hazardous Reactions	None known under conditions of normal use.
Hazardous Decomposition	Does not decompose when applied for intended uses.



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Products

Can decompose under fire or during burning and at high temperatures releasing corrosive/toxic fumes of bromine, nitrogen oxides (NO, NO₂), and cyanides.

Conditions to Avoid

Shock and Friction	Contact with Air	Heat and Ignition Sources	Sunlight	Humidity or Moisture Conditions
Not applicable	Avoid storage without ventilation	Avoid exposing to excessive heat (>40°C)	Do not store in direct sunlight	Avoid moisture conditions during storage

Incompatible Materials

Incompatible with:

Strong Acids	Water	Combustive Materials	Strong Alkalis	Other Incompatible Substances
Yes	Not applicable	Not applicable	Yes	Strong oxidizing agents

11. Toxicological Information

Information on likely routes of exposure

The product may be absorbed into the body by inhalation of vapour or spray and/or by ingestion. The product may come into contact with the skin or eyes.

Information on toxicological effects

The product is harmful if swallowed, fatal if inhaled, and may cause allergic skin reaction.

Acute toxicity:

Product Information	Fatal	Toxic	Harmful	May be Harmful	Not classified
Ingestion – Oral		√			
Dermal/Skin Contact					√
Inhalation	√				

Assessment of acute toxicity:

Experimental test data are not available for the product. Assessment of acute toxicity is based on the active ingredient using calculation.

Product/ingredient Name	Dose Acute -	Species	Test Result
BROMOTRIL P 500 SC	260 mg/kg	Rat	ATE _(MIX) Oral



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BROMOTRIL P 500 SC	0.39 mg/L	Rat (4h)	ATE _(MIX) Inhalation (Dust/Mist)
Bromoxynil	>2 000 mg/kg	Rabbit	LD ₅₀ Dermal

Irritation – Dermal/Skin and Eyes:

Assessment of irritation effects (skin/eyes):

Based on available data, the classification criteria are not met.

Corrosion/Serious Damage - Skin and Eyes:

Assessment of corrosion/serious damage (skin/eyes):

Based on available data, the classification criteria are not met.

Respiratory/Skin Sensitization:

Assessment of sensitization:

Based on available data, the classification criteria are met for skin sensitization.

Bromoxynil: Sensitization possible through skin contact.

Germ cell mutagenicity:

Assessment of mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Assessment of carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive and developmental toxicity:

Assessment of reproduction toxicity:

Based on available data, the classification criteria are met for developmental toxicity.

Bromoxynil: Suspected of damaging the unborn child. Pregnant women, women that plan to become pregnant, and those who are breastfeeding must be careful when handling reproductive materials to limit their exposure as much as possible.

Specific target organ toxicity (single exposure):

Assessment of STOT (single):

Based on available data, the classification criteria are not met.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure):

Assessment of repeated dose toxicity:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Assessment of repeated dose toxicity:

Based on available data, the classification criteria are not met.



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Symptoms related to the physical, chemical, and toxicological characteristics

See Section 4.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin sensitizer and could cause allergic skin reactions.

12. Ecological Information

Ecotoxicity

No eco-toxicological data are available for the formulated product. This ecological assessment is based on data available for the active ingredient of the product. Bromoxynil is very toxic to aquatic life with long lasting effects.

The information below refers to Bromoxynil:

Species and Genus	Exposure (hours/days)	Result in fresh water
Crustacea (<i>Daphnia magna</i>)	48h	Acute EC ₅₀ : 12.5 mg/L (Pesticide Properties Database ¹)
Fish (<i>Oncorhynchus mykiss</i>)	96h	Acute LC ₅₀ : 0.05 mg/L (ETOXNET ²)
Algae (<i>Navicula pelliculosa</i>)	72h	Acute EC ₅₀ growth: 0.12 mg/l (Pesticide Properties Database ¹)

References:

- 1: EU regulatory and evaluation data as published by EC, EFSA (RAR, DAR & Conclusion dossiers), EMA (e.g., EU Annex III PIC DGD) (EU - Pesticides database; EFSA Scientific Publications). Verified data.
- 2: U.S. National Library of Medicine. Hazardous Substances Databank. Bethesda, MD, 1995.10-9.

Toxicity to Other Species

Bromoxynil is highly toxic to pheasants (LD₅₀ of 50 mg/kg) and is moderately toxic to hens (LD₅₀ of 240 mg/kg), quail (LD₅₀ of 100 mg/kg), and mallard ducks (LD₅₀ of 200 mg/kg)³.

Data source: Kidd, H. and James, D. R., Eds. The Agrochemicals Handbook, Third Edition. Royal Society of Chemistry Information Services, Cambridge, UK, 1991 (As Updated). 10-2.

Bees: Oral LD₅₀ µg/bee: 5.

Other Environmental and Adverse Effects:

Environmental effect	Environmental Effect Applicable to Ingredient	Description
Persistence and degradability:	Bromoxynil	Bromoxynil is rapidly biodegraded by soil microorganisms. Abiotic Degradation: Water DT ₅₀ days – 9.6 -16. Soil: DT ₅₀ days - <1.
Bioaccumulative	Bromoxynil	An estimated BCF of 28 was calculated in fish for bromoxynil, using a log K _{ow} of 2.70 and a regression-derived equation.



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potential:		According to a classification scheme, this BCF suggests the potential for bioconcentration in aquatic organisms is low.
Mobility in soil:	Bromoxynil	A reported K_{oc} value of 302 indicates that bromoxynil is expected to have moderate mobility in soil. Volatilization from moist soil is not expected because the compound exists as an anion and anions do not volatilize. It is not expected to volatilize from dry soil surfaces based upon a vapor pressure of 1.28×10^{-7} mm Hg at 25 °C.
Other adverse effects:	Bromoxynil	None known.

13. Disposal Considerations

Waste handling and disposal

Avoid and minimize the generation of waste. Dispose product related waste in accordance with all local regulations and prevent the contamination of water, food, or feed by storage or disposal of the waste. Do not use empty containers for any other purpose. The product or empty containers must not be disposed of as part of general waste. Special help is available for the disposal of Agricultural Chemicals. The product label will supply general advice regarding disposal of small quantities, and how to cleanse containers.













General container handling

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Empty containers and offer for recycling if an available option. Recondition if appropriate, or puncture and dispose of in a hazardous waste landfill, or by other procedures approved by the local authorities. Contaminated packaging: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the product.

Additional special precautions

The product and its container must always be disposed of in a safe manner. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport Information

	Land Transport (ADR/RID)	Inland Waterways (AND/ADNR)	See Transport (IMDG)	Air Transport (ICAO-TI/IATA- DGR)
UN Number	2902	2902	2902	2902
UN Proper Shipping Name	PESTICIDE, LIQUID, TOXIC, N.O.S. (Bromoxynil)	PESTICIDE, LIQUID, TOXIC, N.O.S. (Bromoxynil)	PESTICIDE, LIQUID, TOXIC, N.O.S. (Bromoxynil)	PESTICIDE, LIQUID, TOXIC, N.O.S. (Bromoxynil)
Transport Hazard Class	6.1	6.1	6.1	6.1
Transport Hazard Class Pictograms				
	 	 	 	 
Transport Subsidiary Class	9	9	9	9
Packaging Group	II	II	II	II
Environmental Hazard	Yes	Yes	Yes - Marine pollutant	Yes
Special Provisions	61, 274, 648.	61, 274.	61, 274.	A3, A4.
Classification Code	T6	-	F-A, S-A (EmS-No.)	6L (ERG Code)

15. Regulatory Information

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

Symbol

T⁺ - Very Toxic.

T - Toxic for Reproduction.

Xi - Sensitizing.

N - Dangerous for the Environment.

R- Phrase Number

R Phrase

R22

Harmful if swallowed.

R26

Very toxic by inhalation.

R43

May cause sensitization by skin contact.

R50/53

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R61

May cause harm to the unborn child.

No known specific country national and/or local regulations applicable to the product (including its ingredients). A summary of country specific general laws/regulations are supplied below.

South African 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

Key to Abbreviations

AND	European Provisions concerning the International Carriage of Dangerous Goods by inland Waterways
ADR	The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CAS Number	Chemical Abstracts Service Number
COD	Chemical Oxygen Demand
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
ICAO	International Civil Aviation Organisation
IMDG	International Maritime Dangerous Goods



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Log _{Pow}	Logarithm of the octanol/water partition coefficient
LD ₅₀	Lethal Dose 50
LC ₅₀	Lethal Concentration 50
RID	The Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
TWA	Time Weighted Average
UN	United Nations

Document Control

Date of preparation of the SDS	26 May 2022
Revision date	28 June 2023
Revision Note	Changes made to the last version are labelled with the sign ***. NOTE: This revision incorporates the GHS requirements for BROMOTRIL P 500 SC and therefore the total content of the SDS has been revised.

The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Classification of the Mixture - Classification Procedure

H Statement Number	H Statement	Classification Basis: Test Data/Calculation Method
H301	Toxic if swallowed.	Calculation.
H317	May cause allergic skin reaction.	Calculation.
H330	Fatal if inhaled.	Calculation.
H361d	Suspected of damaging the unborn child.	Calculation.
H410	Very toxic to aquatic life with long lasting effects.	Calculation.

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