Rolfes Agri (Pty) Ltd VAT No: 4770176081 (Reg. No. 1998/013411/07)



SAFETY DATA SHEET

ACCORDING TO THE SOUTH AFRICAN REGULATIONS FOR HAZARDOUS CHEMICAL AGENTS – 2021

STRIKE-DOWN

Revised on / Version: 29/11/2022 / 0005 PAGE 1 OF 11
Replaces Revision of / Version: 19/07/2019 / 0004

SECTION 1: Product and Company Identification

Identification of the product/preparation

incimination of the broadcabioba	
Product Name:	STRIKE-DOWN
Trade Name/Synonyms:	STRIKE-DOWN
Registration Number:	L9007
Product Description and Type:	A water soluble granule, non-selective systemic herbicide, for the post-emergent control of annual weeds as listed.

Active Ingredient

Formula:	Multi-Constituent Substance	
CAS Number:	Not applicable	

Supplier

Company Name: Rolfes Agri (Pty) Ltd Address: 288 Mundt Street

> Waltloo Pretoria South Africa

Phone Number: +27(0)12 803 0145 E-mail Address: info@rolfesagri.co.za

Emergency Phone Numbers

Nature of Emergency	Emergency Operator	Telephone Number
Office Hour Poisoning	Rolfes Agri (Pty) Ltd	+27 (12) 803 0145
Helpline		
Spill Response and	Spill Tech, Oil, and chemical	+ 27 (0) 86 100 0366
Transport Incidents	pollution control	+ 27 (0) 83 253 6618
		www.spilltech.co.za



Relevant identified uses of the product and uses advised against

For use in Agriculture and use as per the product label.

SECTION 2: Hazards Identification

Classification of the substance or mixture

This product is classified as hazardous according to the criteria in South Africa - GHS classification and labelling of chemicals and the Regulations for Hazardous Chemical Agents - 2021.

Classification:

Hazard class	Category	Hazard Statement Number
Skin Corrosion/Irritant	2	H315
Serious Eye Damage/Irritation	1	H318
Hazardous to the Aquatic Environment, Acute Hazard	2	H401
Hazardous to the aquatic environment, long-term hazards	2	H411

Label Elements

South Africa. GHS classification and labelling of chemicals and the Regulations for Hazardous Chemical Agents - 2021.

Pictograms:







Hazard Statements:

Statement Number	Hazard Statement
H315	Causes skin irritation.
H318	Causes serious eye damage.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements:

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Statement Number	Hazard statement	
P101	If medical advice is needed, have container or label at hand.	
P102	Keep out of reach of children.	
P103	Read carefully and follow all instructions.	

Prevention -

Statement Number	Precautionary Statement
P264 + P265	Wash hands and affected area thoroughly after handling. Do not
	touch eyes.
P273	Avoid release to the environment.
P280	Wear protective gloves and protective clothing.

Response -

Statement Number	Precautionary Statement	
P302 + P352	IF ON SKIN: Wash with plenty of water.	

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P305 + P354 + P338	IF IN EYES: Immediately rinse with water for several minutes.		
	Remove contact lenses, if present and easy to do. Continue rinsing.		
P317	Get medical help.		
P321	Specific treatment (see first aid on this SDS)		
P332 + P317	If skin irritation occurs: Get medical help.		
P362 + P364	Take off contaminated clothing and wash it before reuse.		
P391	Collect spillage.		

Disposal -

Statement Number	Precautionary Statement
P501	Empty all pesticides from the container by placing it upside down
	over the spray tank and holding it there for at least 30 seconds.
	Puncture the rinsed container to render it useless and send to a
	recycler.

Other Hazards

None known

SECTION 3: Composition/Information on Ingredients

Mixture

Common Name:	STRIKE-DOWN
IUPAC/Chemical Name:	STRIKE-DOWN
Chemical Family:	
Formulation:	Multi-Constituent Substance

Ingredients with Hazard Concerns (GHS)

According to UN GHS criteria.

Hazardous Component	CAS Number	Weight - %	GHS Classification
MCPA Tech 95%	94-74-6	10 to 30	Skin Irritation 2 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1
Poly Alkyl Glucoside	68515-73-1	<10	Skin Irritation 2 Eye Dam. 1 Aquatic Chronic 3
Glyphosate Acid Tech 95%	1071-83-6	30 to 60	Eye Dam.1 Aquatic Chronic 2

NOTE: There are no other ingredients present according to the current knowledge of the supplier (considering their concentrations present in the product) that are classified as hazardous to health or the environment and that cause/contribute to the correct GHS classification of this product. These ingredients are therefore, in terms of the South African Hazardous Chemical Agent Regulations 2021; Regulation 14(b), not listed.

SECTION 4: First-Aid Measures

Description of First-aid Measures

General Advice	The symptoms resulting from direct exposure to the product
	could appear a while after exposure. If there is persistent

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	discomfort, seek medical attention. Provide this SDS to medical personnel for treatment. Immediately remove contaminated clothing and remove the affected person from the contamination area. Keep the person warm, calm and covered up. First Aid personnel should pay attention to their own safety.
Eye Contact	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact	IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical help.
Inhalation	If exposed or concerned, get medical advice.
Ingestion	IF SWALLOWED: Get medical help.

Most important symptoms/effects, acute and delayed

Symptoms of exposure to the product include eye irritation and skin irritation.

Indication of any immediate medical attention and special treatment needed

Notes to physician: None

Specific treatments: Treat symptomatically or product specific.

SECTION 5: Firefighting Measures

Suitable (and unsuitable)	Use carbon dioxide, dry chemical, alcohol resistant foam,
extinguishing media	or water spray. Do not use water jets.
Specific hazards arising	Fires involving the product may produce irritating or
from the chemical	poisonous vapours, mists, or other products of
including thermal	combustion. Closed containers may explode form vapour
decomposition products	expansion in high heat.
Special protective	Firefighters must wear emergency equipment including
equipment and precautions	positive pressure self-contained breathing apparatus with
for fire-fighters	a full-face mask. Remove unaffected containers from fire
	area if possible.
	Act in accordance with the site's Internal Emergency Plan
Additional provisions	and the Workplace Specific Procedures for actions to be
	taken after an accident or other emergencies.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Ventilate the area of the spill or leak, especially when in confined areas.

Do not touch or walk-through spilled material as slippery when spilt.

Contain spills if it can be done without risk and clean-up immediately.

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.

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Report spills and releases as required to appropriate authorities if the spilt product has caused environmental pollution (sewers, water ways, soil, or air).

Methods for cleaning up

For small spills, Sweep up with damp absorbent material. Place into a labelled waste container subsequent reclamation or disposal. Keep the wash water out of drains, sewers and waterways.

For large spills, Sweep up with absorbent material. Avoid creating dusty conditions and prevent wind dispersal and place the residues into a suitable container for proper disposal. Keep the wash water out of drains, sewers and waterways.

Reference to other 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.

SECTION 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 dust/vapours/spray mists. 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 work/handling area. Maintain good normal industrial hygiene and housekeeping practices in areas where the product is used/handled.

Conditions for safe storage, including any incompatibilities

Always store locked up and keep containers tightly closed when not in use. Store in a cool, dry and well-ventilated place, out of direct sunlight. Check storage containers regularly for leaks and protect containers from physical damage. Store in the original container, avoid cross contamination with other agricultural products. Keep out of reach of children, uninformed persons, and animals. Do not contaminate water, food, or feed by storage or disposal.

It is recommended to have appropriate spill control kits equipped with absorbent material in close proximity to storage areas (see Section 6).

Specific end use(s)

Use as directed. Use original container.

SECTION 8: Exposure Controls and Personal Protection

National Occupational Exposure Limits – Restricted limits for hazardous chemical agents:

Component	Туре	Control Parameter	Update	Basis
	OEL-eight	N/A	2021	South African
Not applicable	hour TWA			RELs*
	OEL-	N/A	2021	South African
	STEL/C			RELs*

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*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. Peak airborne concentration determined over the shortest analytically practicable period of time,

which does not exceed 15 minutes.

National Biological Exposure Indices (BEIs) for hazardous chemical agents:

Component	Sample Matrix	Sample Time	Value
N/A	N/A	N/A	N/A

Appropriate engineering controls

Good general ventilation should be sufficient to maintain airborne concentrations and exposure below occupational exposure limits.

Personal Protective Equipment

Respiratory Protection:	Respiratory protection selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted and well-maintained particulate filter respirator, complying with an approved standard. Respirator selection and use should be based on contaminant type, form and concentration. 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. The gloves should be replaced immediately in case of damage or signs of wear. The personal protective clothing must be properly fitted and well maintained.
Eye/Face Protection:	Select safety eye/face protection based on the task being performed and the risks involved with the task. Wear tightly fitted and well-maintained safety eyewear compliant with an approved standard
Hygiene Measures:	Wash the hands and/or face before breaks, eating, smoking or using the lavatory and at the end of the shift/working period. Eye wash fountains and safety showers should be available and easily accessible. Wash contaminated clothing before reuse.

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.

SECTION 9: Physical and Chemical Properties

Data applicable to mixture

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	Appearance/physical state	Solid (Water Soluble Concentrate)	
Appearance	Odour characteristics	Strong Chemical	
		odour	
	Colour	Light Green	
	Boiling point (°C)	Not applicable	
Volatility	Vapour pressure (Liquids) (Pa)	Not applicable	
	Evapouration Rate at 20 °C	Not applicable	
Product Description	Relative density (kg/m³, relative	Not applicable	
	density of water =1)		
	Solubility in water (g/100mL)	Completely miscible	
	Decomposition temperature (°C)	Not applicable	
	Melting point/freezing point (°C)	Not applicable	
	pH	5.77 (1% dilution,	
		distilled water)	
	Density/relative density (g/cm ³⁾	Not applicable	
	Particle characteristics	Not applicable	
Flammability	Flammable (Y/N)	Not applicable	
	Flash point (°C)	Not applicable	
	Flammable limits-LEL	Not applicable	
	Auto-ignition Temperature (°C)	Not applicable	

^{*}Not relevant due to the nature of the product, not providing information property of its hazards.

Other Hazard Information

None known

SECTION 10: STABILITY AND REACTIVITY

Reactivity

The product is stable under normal conditions

Chemical Stability

Stable under normal ambient conditions of use, storage, and transport.

Possibility of Hazardous Reactions

None known under conditions of normal use.

Conditions to Avoid

Avoid extreme temperatures (>50°C). Keep away from heat and ignition sources.

Incompatible Materials

Avoid strong oxidizing agents and acids.

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Information on likely routes of exposure

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Toxicokinetics, metabolism and distribution:

Non-human toxicological data: No Information available.

Method: No Information available. Dosage: No Information available.

Routes of administration: No Information available.

Results: No Information available. Absorption: No Information available. Distribution: No Information available. Metabolism: No Information available. Excretion: No Information available.

Information on toxicological effects

<u>Acute oral toxicity:</u> Does not meet the GHS Classification criteria. <u>Acute dermal toxicity</u>: Does not meet the GHS Classification criteria. Acute inhalation toxicity: Does not meet the GHS Classification criteria.

Skin corrosion/irritation: MCPA and Poly Alkyl Glucoside

Danger! This substance causes skin irritation. Classified for Category 2

Serious eye damage/irritation: Glyphosate Acid Tech 95%, MCPA & Poly Alkyl Glucoside

Danger! This substance causes serious eye damage. Classified for Category 1. Respiratory or skin sensitization: Does not meet the GHS Classification criteria.

Germ cell mutagenicity: Does not meet the GHS Classification criteria.

Carcinogenicity: Does not meet the GHS Classification criteria.

Reproductive toxicity: Does not meet the GHS Classification criteria.

STOT-single exposure: Does not meet the GHS Classification criteria.

STOT-repeated exposure: Does not meet the GHS Classification criteria.

Aspiration hazard: Does not meet the GHS Classification criteria.

Symptoms related to the physical, chemical, and toxicological characteristics

Symptoms of exposure to the product include eve irritation and skin irritation.

SECTION 12: Ecological Information

Ecotoxicity

Short-term (Acute) hazard Aquatic: MCPA

Danger! This substance is very toxic to aquatic life.

Classified for Catergory 2

<u>Long-term (Chronic) hazard Aquatic:</u> MCPA, Glyphosate Acid Tech 95% & Poly Alkyl Glucoside

Danger! This substance is very toxic to aquatic life with long lasting effects,

Classified for Category 2

Biodegradability in the aquatic environment: Poly Alkyl Glucoside is readily biodegradable.

Toxicity to other species.

Birds: No information available Bees: No information availble.

Other Environmental and Adverse Effects:

Persistence and Degradability:

No information available.

Bioaccumulative Potential:

No information available.

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Mobility in Soil:

No information availble.

Other Adverse Effects:

None Known

SECTION 13: Disposal Considerations

Waste handling and disposal

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.

General container handling

Empty all pesticides from the container by placing it upside down over the spray tank and holding it there for at least 30 seconds. Puncture the rinsed container to render it useless and send to a recycler. Do not use empty containers for any other purpose.

SECTION 14: Transport Information

	Land Transport (ADR/RID)	Inland Waterways (AND/ADNR)	See Transport (IMDG)	Air Transport (ICAO-TI/IATA- DGR)
UN Number	3077	3077	3077	3077
UN Proper Shipping Name	Environmentally hazardous substance, solid, N.O.S (contains Sodium salt of glyphosate)	Environmentally hazardous substance, solid, N.O.S (contains Sodium salt of glyphosate)	Environmentally hazardous substance, solid, N.O.S (contains Sodium salt of glyphosate)	Environmentally hazardous substance, solid, N.O.S (contains Sodium salt of glyphosate)
Transport Hazard Class	9	9	9	9
Transport Hazard Class Pictogram		₩	₹	
Transport Subsidary Class				
Packaging Group	III	III	III	III
Environmental Hazard	¥2>	\P 2	*	**

SECTION 15: Regulatory Information

Safety, health, and environmental regulations/legislation for the mixture.

South Africa

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Regulations for Hazardous Chemical Agents – 2021 – SA Occupational Health and Safety Act. - Handling, labelling and Safety Data Sheets for hazardous and GHS classified substances and mixtures. Occupational Exposure Limits.

Hazardous Substances Act, 1973 (Act No.15 of 1973) - Requirements on the prohibition and control of the importation, manufacture, sale, use, operation, application, modification, disposal or dumping of hazardous substances.

Occupational Health and Safety Act No. 85 of 1993.- Occupational Health and Safety Standards for employers and users working with and around hazardous chemical substances.

National Road Traffic Act, 1996 (ACT NO. 93 of 1996). - The identification and classification of dangerous goods for transport by road and rail modes.

Botswana

Pesticides and Toxic Substances Regulations. 1994 (2006) - Control and management of pesticides and other toxic substances.

Environmental and Pollution Control Act. 1990 - Hazardous waste disposal, hazardous substances, pesticides and effluent wastewater/discharge.

Namibia

Labour Act 11 of 2007 - Hazardous substances classification, labelling, Chemical Safety Data Sheets and Occupational Exposure Limits. Notification of the use of carcinogens and other controlled substances.

Regulations relating to the Health and Safety of Employees at Work Government Notice 156 of 1997. Labour Act 11 of 2007 schedule, item 2(2). - Occupational Health and Safety Standards for employers and users working with and around hazardous chemical substances.

SECTION 16: Other Information

Indication of changes

Alignment to the GHS.

Relevant classification and H-Statements (Number and full text):

Skin Corrosion/Irritant- Category 2

H315: Causes skin irritation

Serious Eye Damage/Eye Irritation- Category 1

H318: Causes serious eve damage

Hazardous to the Aquatic Environment, Acute Hazard- Category 2

H401: Toxic to aquatic life

Hazardous to the aquatic environment, long-term hazards- Category 2

H411: Toxic to aquatic life with long lasting effects

Key to Abbreviations

	or a trainers
AND	European Provisions concerning the International Carraige od Dangerous
	Goods by inland Waterways
ADR	The European Agreement concerning the International Carraige of Dangerous
	Goods by Road
ATE	Acute Toxicity Estimate
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
Log _{Pow}	Logarithm of the octanol/water partition coefficient

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LD50 Lethal Dose 50

LC50 Lethal Concentration 50

RID The Regulations concerning the International Carraige of Dangerous Goods by

Rail

SDS Safety Data Sheet UN United Nations

Notice to Reader

The information contained in this Safety Data Sheet relate only to the specific product and do not relate to the use of the product in combination with any other product or process. Information in the SDS is supplied to the best of ROLFES AGRI (PTY) LTD's knowledge and are believed to be current and correct as of the date on this SDS. All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

The SDS only provides information applicable to the health, safety and environmental hazards of this product at the date of issue in order to facilitate the safe use, handling, storage and transport of this product and does not replace any product information or product specifications.

It is not possible for ROLFES AGRI (PTY) LTD to anticipate or control all conditions under which this product, this product may be used, handled, stored or transported. The obligation of the user, receiver, handler or transporter remains to review the content of the SDS prior to potentially exposing persons/employees to the product and to consider any risks that may associated with the hazards of the product during use, handlings, storage or transportation. Appropriate health, safety and environmental protection risk mitigating measures must be in place and such information must be communicated to all persons that might be involved with and exposed to this product.

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END OF SAFETY DATA SHEET