



### SAFETY DATA SHEET

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

### **FIGHTER**

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Replaces Revision of / Version: 01/08/2019/ 0004

### **SECTION 1: Product and Company Identification**

**Identification of the Product/Preparation** 

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Product Name:	FIGHTER	
Trade Name/Synonyms:	FIGHTER	
Registration Number:	K9653	
Product Description and Type:	FIGHTER is a highly stable, nitrogen free formulation, providing a source of easily absorbed potassium to plants. This product is for use as a foliar feed or for fertigation of vegetable, horticultural, field, ornamental and floricultural crops, to maintain or increase potassium levels within the plant or growing medium.	

**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	<b>Emergency Operator</b>	Telephone Number
Office hour poisoning	Rolfes Agri (Pty)Ltd	+27 (12) 803 0145
helpline		
Spill Response and	Spill Tech, Oil and chemical	086 100 0366
Transport Incidents	pollution control	083 253 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	<b>Hazard Statement Number</b>
Serious Eye Damage/Eye Irritation	2	H319
Reproductive Toxicity	2	H361

### **Label Elements**

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

### **Pictograms**





### **Signal Word**

**WARNING** 

### **Hazard Statements**

Statement Number	Hazard Statement
H319	Causes serious eye irritation.
H361	Suspected of damaging to fertility or the unborn child.

### **Precautionary Statements:**

### General -

Statement Number	Precautionary Statement
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 instructions.

### Prevention -

Statement Number	Precautionary Statement
P203	Obtain, read and follow all safety instructions before use.
P264 + P265	Wash hands and affected area thoroughly after handling.  Do not touch eyes.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

### Response -

Statement Number	Precautionary Statement

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P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
P318	IF exposed or concerned, get medical advice.
P337 + P317	If eye irritation persists: Get medical help.

### Storage -

Statement Number	Precautionary Statement
P405	Store locked up.

#### Disposal -

Statement Number	Precautionary Statement
	Empty all contents 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:	FIGHTER
IUPAC/Chemical Name:	FIGHTER
Chemical Family:	
Formulation:	Multi-Constituent Substance

### **Ingredients with Hazard Concerns (GHS)**

According to UN GHS criteria

Hazardous Component	CAS Number	Weight - %	GHS Classification
Potassium Phosphite	13492-26-7	30 to 60%	Eye irritation (Category 2)
Salicylic Acid	69-72-7	<10 %	Reproductive toxicity (Category 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 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
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	covered up. First Aid personnel should pay attention to their	
	own safety.	
Eye Contact	Flush eyes with water as a precaution	
	Remove all contaminated clothing and shoes. Wash	
Skin Contact	contaminated clothing before re-use. Rinse the skin	
	immediately with plenty of water.	
	Remove the affected victim from exposure to an area with fresh	
	air as a precaution. If not breathing, administer artificial	
Inhalation	respiration with the aid of a pocket mask equipped with a one-	
	way valve or other proper respiratory medical device. Obtain	
	immediate medical attention.	
Ingestion	If exposed or concerned, get medical advice.	

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

Symptoms of exposure to the product include eye irritation.

### Indication of any immediate medical attention and special treatment needed

Notes to physician: None

**Specific treatments:** Treat symptomatically and supportively.

### **SECTION 5: Firefighting Measures**

Suitable (and unsuitable) extinguishing media	Use carbon dioxide, dry chemical, alcohol resistant foam, 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 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	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.

### **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.

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

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### Methods for cleaning up

**For small spills**, soak up with damp earth or sand, or other non-Combustible 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**, contain the spillage with absorbent material (non-combustible for flammable products). Sweep up with absorbent material, contain and collect spilt product in suitable containers 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	Type	Control Parameter	Update	Basis
Not applicable	OEL-eight hour TWA	N/A	2021	South African RELs*
	OEL- STEL/C	N/A	2021	South African RELs*

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### **FIGHTER**

\*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
Not applicable	N/A	N/A	N/A

### **Appropriate engineering controls**

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Personal Protective Equipment** 

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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

Appearance	Appearance/physical state	Liquid Soluble Concentrate
	Odour characteristics	Faint characteristic

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		odour
	Colour	Clear (Colourless)
	Boiling point (°C)	Not applicable
Volatility	Vapour pressure (Pa)	Not applicable
	Evapouration Rate at 20 °C	Not applicable
	Relative density (kg/m3, relative	1.32-1.34
	density of water =1)	
	Solubility in water (g/100mL)	Completely soluble in
		water
Product Description	Decomposition temperature (°C)	Not applicable
	Melting point/freezing point (°C)	Not applicable
	pH	5.5 - 6.0
	Density/relative density(g/cm3)	1.32-1.34
	Particle characteristics	Not applicable
	Flammable (Y/N)	N
Flammability	Flash point (°C)	Not applicable
	Flammable limits-LEL	Not applicable
	Auto-ignition Temperature (°C)	Not applicable

<sup>\*</sup>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 ambient 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**

Incompatable with: Avoid strong oxidizing agents and acids.

### **Hazardous Decomposition Products**

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

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### **SECTION 11: Toxicological Information**

### Information on likely routes of exposure

### Toxicokinetics, metabolism and distribution

Non-human toxicological data: No Information available.

Method: No Information available.

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#### **FIGHTER**

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

Acute oral toxicity: Does not meet the GHS Classification criteria.

Acute dermal toxicity: Does not meet the GHS Classification criteria.

Acute inhalation toxicity: Does not meet the GHS Classification criteria.

Skin corrosion/irritation: Does not meet the GHS Classification criteria.

<u>Serious eye damage/irritation</u>: Potassium Phosphite 30-60%. Warning! This substance

causes serious eye irritation. Category 2.

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: Salicylic Acid <10%, Warning! This substance is suspected of

damaging fertility or the unborn child. Category 2.

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 No information available.

### **SECTION 12: Ecological Information**

#### **Ecotoxicity**

<u>Short-term (Acute) hazard Aquatic</u>: Does not meet the GHS Classification criteria. <u>Long-term (Chronic) hazard Aquatic</u>: Does not meet the GHS Classification criteria. Bio-degradability in the aquatic environment: No information available

#### Toxicity to other species

Birds: No information available. Bees: No information available.

# Other Environmental and Adverse Effects Persistence and Degradability

No information available.

### **Bioaccumulative Potential:**

Potassium Phosphite- BCF (aquatic species): 0.5 L/kg ww

### **Mobility in Soil:**

No information available

#### **Other Adverse Effects:**

None known.

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### **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 contents 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)	Sea Transport (IMDG)	Air Transport (ICAO-TI / IATA-DGR)
UN Number	Not regulated	Not regulated	Not regulated	Not regulated
UN Proper Shipping Name	-	-	-	-
Transport Hazard Class	-	-	-	-
Transport Hazard Class Pictogram	-	-	-	-
Packing Group	-	-	-	-
Environmental Hazard	-	-	-	-

<sup>\*</sup>Not classified as dangerous goods

### **SECTION 15: Regulatory Information**

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

#### **South Africa**

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.

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#### 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):

Serious Eye Damage/Eye Irritation- Category 2

H319: Causes serious eye irritation

Reproductive Toxicity- Category 2

H361: Suspected of damaging to fertility or the unborn child

### **Key to Abbreviations**

	751 O 1 I I I I I I I I I I I I I I I I I
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 <sub>Pow</sub>	Logarithm of the octanol/water partition coefficient
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).

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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**