



SAFETY DATA SHEET

PRODUCT 1. CHEMICAL AND **IDENTIFICATION**

Product Name: AG-ALPHA CYPER 100 SC Other identifier: AG-ALPHA CYPER 100 SC

Recommended use: Insecticide Restrictions on use: Agriculture

Supplier Rolfes Agri (Pty) Ltd

288 Mundt Street

Waltloo

Pretoria. South Africa

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

Emergency Phone Numbers: Office hour poisoning helpline

Rolfes Agri (Pty) Ltd +27 (12) 803 0145

Spill Response and Transport Incidents

Spill Tech, 086 100 0366, www.spilltech.co.za Oil and chemical pollution control 083 253 6618

2. HAZARDS IDENTIFICATION

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

Chemical Agents - 2021.			
Hazard class	Hazard category	H-statement	
Health			
Acute Toxicity, Oral	Acute Tox. 4	H302	
Carcinogenicity	Carc. 1B	H350	
Specific Target Organ Toxicity	STOT RE 2	H373	
Repeated			
Exposure			
Environment			
Aquatic Acute	Aquatic Acute 1 H400		
Aquatic Chronic	Aquatic Chronic 2 H411		

The most important adverse effects: Physiochemical effects: None known.

Human health effects:

Harmful if swallowed (Acute Tox.4) May cause cancer (Carc. 1B)

May cause damage to organs through prolonged or repeated exposure (STOT RE 2)

Pictograms:



COMPANY | Signal word: Danger.

Hazard statements:

H302: Harmful if swallowed. H350: May cause cancer.

H373: May cause damage to organs through prolonged or

repeated exposure.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

Precautionary statements:

P203: Obtain, read and follow all safety instructions before

P260: Do not breathe fumes/gas/mist/vapours/spray.

P264: Wash hands and affected area thoroughly after

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves//face protection. P301+P317: IF SWALLOWED: Get medical help.

P318: IF exposed or concerned, get medical advice.

P319: Get medical help if you feel unwell.

P330: Rinse mouth.

P391: Collect spillage.

P405: Store locked up.

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 (South Africa).

Special labelling of certain mixtures:

None known.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Category 4

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients with Hazard Concerns (GHS): According to UN GHS criteria

Hazardous	CAS	Conc.	GHS
Component	Number	(m/v) %	Classification
Alpha- cypermethrin	67375- 30-8	>10%	Acute Tox. 3 (H301) STOT SE 3 (H335) STOT RE 2 (H373(Aquatic Acute 1 (H400) M=1000 Aquatic Chronic 1 (H410)





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Formaldehyd	50-00-0	0-5%	Acute Tox. 3
е			(H301)
			Acute Tox. 3
			(H311)
			Skin Corr. 1B
			(H314) (C ≥ 25
			%)
			Skin Sens. 1
			(H317) (C ≥ 0,2
			%)
			Acute Tox. 3
			(H331)
			Muta. 2 (H341)
			Carc. 1B (H350)

4. 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 covered up. First Aid personnel should pay attention to their own safety.

Eye contact: Flush eyes immediately with large amounts of flowing cold water for 15-20 minutes, until no evidence of chemical remains. If irritation persists, get medical help. **Skin contact:** Remove all contaminated clothing and shoes. Gently wipe off residual chemical and wash skin thoroughly with non-abrasive soap. If irritation persists, get medical help.

Inhalation: Remove the affected victim from exposure to an area with fresh air. If breathing has stopped, administer artificial 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, rinse mouth thoroughly with water and get medical advice.

Most important symptoms/effects, acute and delayed: Harmful if swallowed.

Notes to physician: Treat symptomatically and supportively. No specific antidote known.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use carbon dioxide, dry chemical for small fires and alcohol resistant foam or water fog for large fires. Do not use water jets.

Specific hazards arising from the chemical including thermal decomposition products: Fires involving the product may produce irritating or poisonous smoke, or other products of combustion.

Special protective equipment and precautions for firefighters: 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.

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).

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.

7. HANDLING AND STORAGE REQUIREMENTS

Precautions for safe handling

Always provide good ventilation in the work area. Prevent contact with eyes, skin and clothing. Do not breathe in dust. 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.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

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

Component	Туре	Control Parameter	Update	Reference
N/A	OEL- eight- hour TWA	N/A	2021	South African RELs*
	OEL- STEL/C	N/A	2021	South African RELs*

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/physical state: Homogenous liquid

Concentrate.

Odour: Slightly aromatic.

Colour: Off-white.

Boiling Point: Not applicable.

Vapour Pressure (mm Hg): Not applicable.

Evaporation Rate: Not applicable

Relative Vapour Density: Not available.
Solubility in water: Miscible in water.
Decomposition temperature: Not applicable.
Melting point/freezing point: Not available.

oH: 7.2

Density/relative density(g/cm3): approx. 1.03 at 20 °C

Flammability: Not flammable.

Flash Point: >100 °C

Flammable limits-LEL: Not available Auto-ignition temperature: Not available.

Viscosity: Not applicable.

10. STABILITY AND REACTIVITY

Reactivity: None known.

Chemical Stability: This product is stable for 2 years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50°C, preferably below 30°C, and not for prolonged periods in direct sunlight.

Possibility of Hazardous Reactions: N/A Conditions to Avoid: Avoid excessive heat

Incompatible Materials: Substances to avoid strong

bases, strong acids, strong oxidizing agents **Hazardous Decomposition Products:** N/A

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Calculated.

Oral LD₅₀ (24 h) >550 mg/kg (rat).

Dermal LD₅₀ (24 h) >13500 mg/kg (rat/rabbit)

Inhalation LC₅₀ (4 h) >5 mg/L (rat).

Skin Corrosion/Irritation/: Not classified.

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Eve Damage/Irritation: Not classified. Skin Sensitization: Not classified. Respiratory Sensitization: Not classified. Germ cell mutagenicity: Not classified. Carcinogenicity: May cause cancer. Reproductive toxicity: Not classified.

Specific target organ toxicity - single exposure: Not

classified.

Specific target organ toxicity - repeated exposure: May cause damage to organs through prolonged or

repeated exposure.

Aspiration hazard: Not classified.

Symptoms related to the physical, chemical, and

toxicological characteristics.

No information available.

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA: ALPHA-CYPERMETHRIN.

Fish:

LC₅₀ (96 h) Rainbow trout 0.0028 mg/L Fathead minnow 0.00093 ma/L

Daphnia:

0.0001-0.0003 EC₅₀ (48 h)

mg/L

Birds:

 LD_{50} Northern bobwhite >2025 mg/kg LC₅₀ Northern bobwhite >5000 mg/kg

Bees:

LD₅₀ (24 h) 0.000059 mg/bee

Algae:

EC₅₀ (96 h) >0.1 mg/L

Worms:

LD₅₀ (15 d) Earthworm >100 mg/kg

ENVIRONMENTAL EFFECTS:

Plants: Not determined.

Persistence and degradability: Alpha-cypermethrin undergoes rapid degradation in soil under alkaline conditions. Under neutral or acidic conditions, hydrolysis half-life increases to 20-29 days.

Bio-accumulative Potential: Accumulation in organisms

is not to be expected.

Mobility in soil: Alpha-cypermethrin is not mobile in soil

and has a high affinity for organic matter.

Other adverse effects: Do not discharge product into the

environment without control.

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. The product container/bags may be taken to a registered waste disposal site or incineration plant.

General container handling: Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one guarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za.). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

14. TRANSPORT INFORMATION

	Land Transport (ADR/RID)	Inland Waterways (AND/ADNR)	Sea Transport (IMDG)	Air Transport (ICAO-TI / IATA-DGR)
UN Number	3082	3082	3082	3082
UN Proper Shipping Name	Environmen tally hazardous substance, liquid, N.O.S. (Alpha- Cypermethri n)	Environmen tally hazardous substance, liquid, N.O.S. (Alpha- Cypermethri n)	Environmen tally hazardous substance, liquid, N.O.S. (Alpha- Cypermethri n)	Environmen tally hazardous substance, liquid, N.O.S. (Alpha- Cypermethri n)
Transport Hazard Class	9	9	9	9
Transport Hazard Class Pictogram		€	®	€
Packing Group	III	III	III	III
Environmen tal Hazard	*	£	E	£

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.

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.

16. OTHER INFORMATION

Packaging: Packed in 5, 10, 25 litre plastic bottles and labelled according to South African regulations and guidelines.

Relevant classification and H-Statements:

Acute Toxicity, Oral- Category 4 H302: Harmful if swallowed

Carcinogenicity- Category 1B H350: May cause cancer

Specific Target Organ Toxicity, Repeated Exposure-Category 2

H373: May cause damage to organs through prolonged or repeated exposure

Hazardous to the Aquatic Environment, Acute Hazard-Category 1

H400: Very 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

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
 Logarithm of the octanol/water partition coefficient

LD₅₀ Lethal Dose 50 LC₅₀ Lethal Concentration 50 RID The Regulations concern

RID The Regulations concerning the International Carraige of Dangerous Goods by Rail

SDS Safety Data Sheet 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.

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