

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: SUPAWETT
Other identifier: SUPERWETT
Recommended use: Adjuvant
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.

| Hazard class | Hazard category | H-statement |
|---|-----------------|-------------|
| Physical Hazard | | |
| None | | |
| Health Hazards | | |
| Acute Toxicity – Oral | Category 5 | H303 |
| Acute Toxicity - Dermal | Category 4 | H312 |
| Serious Eye Damage | Category 2A | H319 |
| Acute Toxicity - Inhalation | Category 4 | H332 |
| Environmental Hazards | | |
| Hazardous to the Aquatic Environment – Short-Term (Acute) Hazard | Category 2 | H401 |
| Hazardous to the Aquatic Environment – Long-Term (Chronic) Hazard | Category 2 | H411 |

The most important adverse effects:

Physiochemical effects:

None.

Human health effects:

May be harmful if swallowed (Acute Tox. Oral 5)

Harmful if in contact with skin (Acute Tox. Dermal 4)

Causes serious eye irritation (Eye Irrit. 2)

Harmful if inhaled (Acute Tox. Inhal. 4)

Pictograms:



Signal word: Warning.

Hazard statements:

H303: May be harmful if swallowed.

H312: Harmful in contact with skin.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H401: Toxic to aquatic life.

H411: Toxic to aquatic life with long-lasting effects.

Precautionary statements:

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.

P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

P264 + P265: Wash hands and affected area thoroughly after handling. Do not touch eyes.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves / protective clothing / eye protection / face protection / hearing protection.

P301 + P317: IF SWALLOWED: Get medical help.

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

P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P317: Get medical help immediately.

P321: Specific treatment (see first aid treatment on this SDS).

P337 + P317: If eye irritation persists: Get medical help.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

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.

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 Component | CAS Number | Conc. (m/v) % | GHS Classification |
|---|-------------|---------------|--|
| Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether | 134180-76-0 | >60% | Acute Tox 4. Dermal (H312) Eye Irrit. 2 (H319) Acute Tox. 4 Inhalation (H332) Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411) |

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 lukewarm water or saline solution for at least 15 – 20 minutes, until no evidence of chemical remains. If irritation persists, get medical help.

Skin contact: Remove all contaminated clothing and shoes immediately. Gently wipe off residual chemical and

wash skin thoroughly with water and non-abrasive soap. If irritation or rash 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. If irritation persists, get medical help.

Ingestion: Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

Most important symptoms/effects, acute and delayed: Prolonged absorption causes weight loss, vomiting, diarrhoea, and skin rash.

Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use carbon dioxide (CO₂), dry chemical, alcohol resistant foam, water mist or fog. Do not use water jets.

Specific hazards arising from the chemical including thermal decomposition products: Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Decomposition products may include carbon monoxide fumes, carbon dioxide fumes.

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 Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. In the event of a fire, wear full protective clothing and self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing the task. Personal protection equipment must be used against potential contact with the spilt product (see section 8).

Evacuate the area and keep out those who do not have protection.

Environmental Precautions:

Do not discharge into drains, water courses or onto the ground. Remove any intact containers. Advise local authority that none of the affected water should be used until natural dilution returns the levels to its normal environmental background level.

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 mist or vapours. 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 affected area 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.

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 containers.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

No information available.

8.2 Exposure controls

Appropriate engineering controls: No special ventilation requirements. 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: Liquid.

Odour: Characteristic

Colour: Pale yellow.

Boiling Point: >200°C.

Vapour Pressure (mm Hg): Not applicable.

Upper/lower explosion limits: Not explosive.

Evaporation Rate: Not applicable.

Relative Vapour Density: Not applicable.

Solubility in water: Soluble in water (25 °C)

Decomposition temperature: Not applicable.

Melting point/freezing point: < 0°C

pH: 6 – 8 (25 °C)

Density g/cm³ : 1.01

Flammability: Not applicable.
Flash Point: >140 °C.
Flammable limits-LEL: Not applicable.
Auto-ignition temperature: Not applicable.
Viscosity: Not applicable.

10. STABILITY AND REACTIVITY

Reactivity: No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

Chemical Stability: 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: Will not occur under normal conditions of storage, handling, and use.

Conditions to Avoid: Applicable for handling and storage at room temperature.

Incompatible Materials: None known.

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

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Calculated.

Acute Oral Toxicity LD₅₀: >2000 mg/kg.

Acute Dermal Toxicity LD₅₀: 1550 mg/kg.

Acute Inhalation Toxicity LC₅₀: 1,08 mg/L.

Skin Corrosion/Irritation: Not classified.

Eye Damage/Irritation: Causes serious eye irritation.

Skin Sensitization: Not classified.

Respiratory Sensitization: Not classified.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

Specific target organ toxicity – single exposure: Not classified.

Specific target organ toxicity – repeated exposure: Not classified.

Aspiration hazard: Not classified.

Symptoms related to the physical, chemical, and toxicological characteristics.

No information available.

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

| Species | Exposure | Results |
|---------|----------|---------|
|---------|----------|---------|

| | | |
|---------------------|------------------|-----------------|
| Oncorhynchus mykiss | LC ₅₀ | 2.1 mg/L (96 h) |
| Daphnia magna | EC ₅₀ | 1,1 mg/L |

ENVIRONMENTAL EFFECTS:

Plants: No information available.

Persistence and degradability: Readily biodegradable.

Bio-accumulative Potential: No data available.

Mobility in soil: No data available.









Other adverse effects: No known significant effects or critical hazards.

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/bottles may be taken to a registered waste disposal site or incineration plant.

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.

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 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. |
| Transport Hazard Class | 9 | 9 | 9 | 9 |
| Transport Hazard Class Pictogram |  |  |  |  |
| Packing Group | III | III | III | III |
| Environmental Hazard |  |  |  |  |

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 1; 5; 10; 20; 25; 210; 1000 L Plastic bottles/Drums and labelled according to South African regulations and guidelines.

Relevant classification and H-Statements:

Acute Toxicity – Oral: Category 5
H303: Maybe harmful if swallowed.

Acute Toxicity – Dermal: Category 4
H312: Harmful in contact with skin.

Serious Eye Irritation: Category 2
H319: Causes serious eye irritation.

Acute Toxicity – Inhalation: Category 4
H332: Harmful if inhaled.

Hazardous to the Aquatic Environment – Short-Term (Acute) Hazard: Category 2
H401: Toxic to aquatic life.

Hazardous to the Aquatic Environment – Long-Term (Chronic) Hazard: Category 2
H411: Toxic to aquatic life with long-lasting effects.

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 |
| 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 |
| LD₅₀ | Lethal Dose 50 |
| LC₅₀ | Lethal Concentration 50 |
| RID | The Regulations concerning the International Carriage 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.

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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