

Sharda International Africa (Pty) Ltd

(Co. Reg. No. 2010/002268/07)

P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011,

Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

SECTION 1. Chemical product and company identification

Product identifier:

Identification as on the label/Trade name: **REVERT SC**

Additional information: AZOXYSTROBIN 20% + DIFENCONAZOLE 12.5% SC

Relevant identification uses of the substance and uses advised against:

Identified uses: Fungicide

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Company name: Sharda International Africa (Pty) Ltd

Address: P.O. Box 82021, Southdale, 2135

Phone number.: 031-764-3011

Emergency telephone numbers:

UNITAS Hospital: 0800-111-9900

Tygerberg Hospital: 021-931-6129

Netcare 911: 082911

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to

SANS 10234:2008, Regulation EC 1272/2008 [EU-GHS/CLP]	
Hazard classes/Hazard categories	Hazard statement
Acute toxicity Oral	H302: Harmful if swallowed
Acute toxicity Inhalation	H332: Harmful if inhaled
Skin Irritation	H315: Causes skin irritation
Eye Irritation	H330: Causes eye irritation
Acute aquatic toxicity	H400 + H410 Very toxic to aquatic life with long lasting effects

For full text of H statements see section 16

The most important adverse effects

The most important adverse physiochemical effects: None.

The most important adverse human health effects: **H302:** Harmful if swallowed. Harmful if inhaled. Causes skin irritation. Causes eye irritation.

Label elements



Hazard pictograms:

Signal Word: Warning

Hazard Statements: H302: Harmful if swallowed. H332: Harmful if inhaled. H315: Causes skin irritation. H330: Causes eye irritation. H400 + H410: Very toxic to aquatic life with long lasting effects.

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Precautionary Statements: P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P261 + P271 Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. P264 + P280 Wash hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. P273 Avoid release to the environment.

Special labelling of certain mixtures: None

Other hazards: None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Substance name (IUPAC/EC)	CAS –No.	Concentration % by weight	Classification
			EC1272/2008
Folpet	133-07-3	83.33	Eye Irritation Category 2 Skin Sensitization Category 1 Acute toxicity 4 inhalation Carcinogen category 2 Aquatic acute category 1
Sodium Lignosulfonate	8061-51-6	2	
Sodium alkylnaphthalene sulfonate, formaldehyde condensate proprietary	68425-94-5	5	Skin irritation category 2 Eye irritation Category 2
Alkylnaphtalinsulphonic acid	27213-90-7	2	Acute toxicity category 4 Skin irritation category 2 Eye irritation category 2 Acute toxicity category 4 inhalations Aquatic chronic category 3
Magnesium silicate	14807-96-6	1	
calcium carbonate	471-34-1	6.67	

For full text of H statements see section 16

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

General advice: Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control centre or physician, or going for treatment.

Inhalation: Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre immediately.

Skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting: contains petroleum distillates and/or aromatic solvents.

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Most important symptoms and effects, both acute and delayed:

No information available

Indication of any immediate medical attention and special treatment needed:

There is no specific antidote available. Treat symptomatically.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Extinguishing media - small fires. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires. Use alcohol-resistant foam or water spray.

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the mixture:

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

Advice for fire-fighters:

Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin, eye or clothing. Use personal protective equipment as required. Evacuate personal to safe areas. Keep people away from and upwind of spill/ leak.

For non-emergency personnel: Keep all personal away. Avoid contact with eyes and skin.

For emergency responders: Wear appropriate personal protective equipment. Avoid contact and ventilate area of the spill or leakage.

Protective equipment: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill.

Emergency procedures: Alert fire-fighting personnel, evacuate unprotected personal and animals

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). If the product contaminates rivers and lakes or drains inform respective authorities.

Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

Additional information: None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

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No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

Conditions for safe storage, including incompatibilities: No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

Incompatible substances: Registered Crop Protection products: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters:

Occupational exposure limits (OEL): None known

Biological exposure indices (BEI): None known.

Additional exposure limits under the conditions of use: None known.

Exposure control:

Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas

Hygiene measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Where there is possibility that an employee's eyes may be exposed to this substance; the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use

Respiratory protection:

Use only with adequate ventilation

Hand protection:

Suitable chemical resistance gloves (EN 374) also with prolonged, direct contact (recommendation: protection index 6, corresponding > 480 minimum Permeability time (permeation) according to EN 374) e.g., nitrile rubbers (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).

Eye/face protection:

Wear a face shield or safety goggles when handling the concentrate and when applying the product. Contact lenses are not protective eye devices.

Skin and body protection:

Use suitable protective clothing and equipment if required, such as safety goggles certified to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or water repellent woven coverall with 65% polyester and 35% cotton.

Environmental exposure controls: Do not allow into any sewers, on the ground or into any body of water

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Light yellow to yellow
Odour:	Weak

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pH :	5-9 at 1% w/v 7.5 – 8.5 at 100% w/v (20 °C)
Melting point:	Not available.
Freezing Point:	Not available.
Boiling Point:	Not available.
Flash Point:	>100 °C at 755 mmHg
Flammability:	Not flammable
Upper/lower explosion limits:	Not available.
Vapour Pressure (mm Hg):	Not available.
Relative Vapour Density:	Not available.
Density:	1.11 g/cm ³ at 20 °C
Solubility:	no data available
N-octanol/water partition coefficient:	Not available.
Auto-ignition temperature:	505 °C
Decomposition temperature:	Not available.
Viscosity:	169 – 646 mPa.s at 20 °C 98.0 – 472 mPa.s at 40 °C.
Explosive properties:	Not explosive
Oxidizing properties:	Not oxidizing
Bulk density:	27.9 mN/m at 20 °C
Surface tension:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not available

Chemical stability: No information available

Possibility of hazardous reactions: None known. Hazardous polymerisation does not occur.

Conditions to avoid: No information available

Incompatible materials: No information available

Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapours

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Information on toxicological effects

Acute oral toxicity: LD50 female rat, > 2,000 mg/kg

Acute inhalational toxicity LC50 male and female rat, 2.06 – < 5.17 mg/l, 4 h Acute dermal toxicity LD50 male and female rat, > 2,000 mg/kg

Skin corrosion/irritation Rabbit: slightly irritating Serious eye damage/eye irritation
Rabbit: mildly irritating

Respiratory or skin sensitisation Buehler Test guinea pig: a skin sensitizer in animal tests.

Germ cell mutagenicity

Azoxystrobin Did not show mutagenic effects in animal experiments.

Difenoconazole Did not show mutagenic effects in animal experiments

Carcinogenicity

Azoxystrobin Did not show carcinogenic effects in animal experiments.

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Difenoconazole Did not show carcinogenic effects in animal experiments.

Reproductive toxicity

Azoxystrobin Did not show reproductive toxicity effects in animal experiments

Difenoconazole Did not show reproductive toxicity effects in animal experiments

STOT – repeated exposure

Azoxystrobin No adverse effect has been observed in chronic toxicity tests.

Difenoconazole No adverse effect has been observed in chronic toxicity tests.

SECTION 12. ECOLOGICAL INFORMATION

Anticipated behaviour of the chemical product in the environment /possible environmental impact/ecotoxicity:

Toxicity

Toxicity to fish

LC₅₀ Oncorhynchus mykiss (rainbow trout), 1.7 mg/l, 96h LC₅₀ Cyprinus carpio (Carp), 4.2 mg/l, 96h

Toxicity to aquatic invertebrates

EC₅₀ Daphnia magna (Water flea), 1.1 mg/l, 48h

Toxicity to aquatic plants

EbC₅₀ Pseudokirchneriella subcapitata (green algae), 0.69 mg/l, 96h ErC₅₀ Pseudokirchneriella subcapitata (green algae), 3.9 mg/l, 96h

Persistence and degradability

Biodegradability

Azoxystrobin is not readily biodegradable

Stability in water

Degradation half life: 214 d

The substance is stable in water

Degradation half life: 1 d

Not persistent in water

Stability in soil

Degradation half life: 80 d Not persistent in soil

Degradation half life: 149 - 187 d Not persistent in soil

Bioaccumulative potential

Azoxystrobin Does not bioaccumulate.

Difenoconazole High potential to bioaccumulate

Mobility in soil

Azoxystrobin Low to very high mobility in soil.

Difenoconazole Low mobility in soil

Results of PBT and vPvB assessment

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Neither azoxystrobin or difenoconazole are considered to be persistent, bio accumulating nor toxic (PBT). Neither azoxystrobin or difenoconazole are considered to be very persistent nor very bio accumulating (vPvB).

ENVIRONMENTAL EFFECTS:

Persistence and degradability: No data available

Bio-accumulative Potential: No data available

Mobility in soil: No data available.

Other adverse effects: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

General Information: Do not discharge into drains, water courses or onto the ground. Discharge, treatment or disposal may be subject to national, state, or local laws. Empty containers may contain product residues. Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

Disposal Methods: Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company.

Container: Since emptied containers retain product residue, follow label warnings even after container is emptied.

Product/ packaging disposal:

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number: 2902
Un proper shipping name FLAMMABLE LIQUID, N.O.S. (AZOXYSTROBIN AND DIFENOCONAZOLE)
UN Classification transport hazard class(es): 6.1
Packing group (if applicable) II
Marine pollutant (Y/N) Not available
Transport in bulk according to MARPOL 73/78, Annex II and the IBC Code: Not available

SECTION 15. REGULATORY INFORMATION

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

Relevant information regarding authorization: Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 11014:2010 – Safety data sheet for chemical products, Content and order section

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No

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SECTION 16. OTHER INFORMATION

Indication of changes:

GHS aligned

Relevant classification and H statements (number and full text):

H302: Harmful if swallowed.

H332: Harmful if inhaled.

H315: Causes skin irritation.

H320: Causes eye irritation.

H400 + 401: Very toxic to aquatic life with long lasting effects.

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

To the best of our knowledge, the information contained herein is accurate and is based on the present state of our knowledge and does not therefore guarantee specific properties. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for any accuracy or completeness of the information contained herein.

Final determinations of suitability of any material are sole responsibility of the users, who must take responsibility for observing existing laws and regulations. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.