Safety Data Sheet

Olive Set
SDS No: 087/000
Effective Date: 20/09/2022
Revision no: 000
Product Code: 087000

SECTION 1
COMPANY AND CHEMICAL PRODUCT IDENTIFICATION

Product Name:	**Olive Set**
Chemical Identifier:	Boric Acid, Zinc Oxide
Product Use:	Fertilizer
Supplier:	**Nutrico SA (Pty) Ltd. (Co. Reg. No. 2003/008663/07)** Cedar Lake Industrial Estate, 1 Harvest Place, Clayville, Olifantsfontein, 1666, Gauteng, RSA
Telephone:	(011) 392 4072
Website:	www.nutrico.co.za
Restrictions on use:	Agriculture
Emergency Contact Numbers	
Griffon Poison Information:	+27 82 446 8946

SECTION 2
HAZARDS IDENTIFICATION

Classification as defined by Regulation (EC) 1272/2008 [CLP] EU & SANS 10234:2008

Hazard Classes	Hazard Category	Hazard Statement Code	Hazard Statements
Health			
Acute toxicity (oral)	-	-	-
Acute toxicity (dermal)	-	-	-
Inhalation	-	-	-
Skin irritation	-	-	-
Eye irritation	-	-	-
Reproductive	1B	H360FD	May damage fertility. May damage the unborn child
STOT (RE/SE)	-	-	-
Environmental			
Aquatic (Acute)	Acute 2	H401	Toxic to aquatic life
Aquatic (Chronic)	Chronic 2	H411	Toxic to aquatic life with long lasting effects

Label elements: labelling as defined by Regulation (EC) 1272/2008 [CLP] EU & SANS 10234:2008

Hazard pictograms

Signal word - Danger

Precautionary statements

P101	If medical advice is needed, have product container or label in hand
P264	Wash thoroughly with soap after handling.
P273	Avoid release to the environment.
P280	Wear impervious rubber gloves and chemical safety goggles.
P302/352	IF ON SKIN: Wash with plenty of water and soap.
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with local regulations.

Special labelling of certain mixtures – None known

Other hazards – None known

Toxicity: Classification according to GHS: Not classified

SECTION 3
COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Declared Ingredients:

Chemical name	CAS No.	EC No.	Conc. %w/w	Classification Regulation (EC) 1272/2008
Boric Acid	10043-35-3	-	10-30	H360FD
Zinc Oxide	3486-35-9	-	<10	H411, H401

SECTION 4
FIRST AID MEASURES

INHALATION: This product is not classified as an inhalation toxicant, however, if toxication occurs, remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation persists.

SKIN: This product is not classified as a skin irritant, however, if skin irritation occurs, remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists.

EYES: Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention immediately.**

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 and give 2 to 3 glasses of water to drink.

IMPORTANT ACUTE EFFECTS: May damage fertility. May damage the unborn child
Toxic to aquatic life

IMPORTANT DELAYED EFFECTS: Toxic to aquatic life with long lasting effects

NOTE TO PHYSICIAN: This product contains a Boric Acid & Zinc Oxide. Treat symptomatically and supportively.

SECTION 5
FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Use carbon dioxide, dry chemical, water fog or foam.
Unsuitable Extinguishing Media:	High volume water jet. Use a water jet only to cool heated containers.
Specific hazards:	Non-known
Special Fire Fighting Procedures:	Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Keep upwind. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal. Avoid pollution of waterways by run-off from the site.
Personal protective equipment:	Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear.

SECTION 6
ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with eyes. Do not breathe in spray mist or fumes. Ventilate area of spill or leak, especially in contained areas.
Protective equipment:	Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.
Emergency procedures:	Alert emergency personnel, evacuate unprotected personnel and animals.
Environmental Precautions:	Prevent spilled product from entering sewers, waterways, or ground water. Any spillages or uncontrolled discharges into watercourses should be reported immediately to the police and the Department of Water/Environmental Affairs.
Methods & Materials for Containment:	Contain spilled product by diking area with sand or earth.
Methods & Materials for Clean-up:	Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a clean, dry, sealable container. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spill material. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. See section 13 for disposal considerations.

SECTION 7
HANDLING AND STORAGE

HANDLING

Precautions for safe handling: Avoid contact with skin and eyes. Ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

General occupational hygiene: Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used.

STORAGE

Conditions for safe storage: Keep out of reach of unauthorised persons, children and animals. Store in its original, labelled container, tightly closed, in an isolated, dry, cool and well- ventilated area. Avoid excess heat. Not to be stored next to foodstuffs, feed and water supplies. Avoid cross contamination with other pesticides and fertilisers.

Incompatible substances and mixtures: Refer to product label.

Packaging material: Plastic bags

SECTION 8
EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration: No occupational exposure limits have been determined for the significant ingredients in this product.

ENGINEERING CONTROLS:

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use a NIOSH approved air-purifying respirator.

Hand Protection: The use of chemically protective gloves is recommended to prevent against skin contact.

Eye Protection: The use of chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: Wear appropriate protective clothing; boots, hat and equipment to prevent repeated or prolonged skin contact with this substance.

Emergency eyewash: Where there is any possibility that a handler's eyes may be exposed to this substance; an eye wash fountain should be provided or appropriate alternative within the immediate work area for emergency use.

SECTION 9
PHYSICAL AND CHEMICAL PROPERTIES

Property	Value/description	Method
Physical state	Solid (Powder)	Visual
Colour	White	Visual or Munsell
Odour	Odourless	Organoleptic
pH (1% aqueous dilution)	6.4-6.7	CIPAC MT 75.3
Melting/Freezing point	Not applicable	
Boiling point	Not applicable	
Flash point	Not applicable	
Flammability	Not flammable	
Vapour pressure	Not applicable	
Relative Vapour Density	Not applicable	
Density	1.00 g/cm^3	Pycnometer
Solubility	Soluble in water	
n-Octanol/Water partition coefficient	Not available	
Auto-ignition temperature	Not applicable	
Decomposition temperature	Not available	
Viscosity	Not applicable	
Explosive properties	Not explosive	
Oxidising properties	Not oxidative	

SECTION 10
STABILITY AND REACTIVITY

Chemical Stability: The product is stable for two 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.

Reactivity: Not applicable.

Possibility of Hazardous Reactions: Not applicable.

Conditions to Avoid: Extreme heat or exposure to flames.

Incompatible Materials: Refer to product label.

Hazardous Decomposition Products: Not applicable

SECTION 11
TOXICOLOGICAL INFORMATION

GHS Classification: May damage fertility. May damage the unborn child (H360FD)

Toxicity	Effective dose/ concentration	Value	Species	Method/Source
Acute Oral	LD_{50}	19167 mg/kg	-	GHS ATE Calculation
Acute Dermal	LD_{50}	N/A	-	
Acute Inhalation	LC_{50}	11 mg/L	-	
Skin irritation	Not classified as a skin irritant			
Eye irritation	Not classified as an eye irritant			
Skin sensitization	Not classified as a skin sensitizer			
Respiratory sensitization	Not known to be a respiratory sensitizer.			
Mutagenicity/Genotoxicity	Not classified as a mutagenic/genotoxic toxicant			
Carcinogenicity	Not classified as a carcinogen			
Reproductive toxicity	May damage fertility. May damage the unborn child			
Specific target organ toxicity:	Not classified as a specific target organ toxicant.			
Chronic effects (e.g developmental)	Non known			

SECTION 12
ECOLOGICAL INFORMATION

GHS Classification: Toxic to aquatic life (H401)
Toxic to aquatic life with long lasting effects (H411)

Toxicity	Effect dose/ concentration	Value	Test duration	Species	Method/Source
Aquatic					
Fish	LC_{50}	Not available	Not Available	Not Available	-
	NOEC				
Crustacea	EC_{50}				
	NOEC				
Algae	EC_{50}				

ENVIRONMENTAL EFFECTS

Persistence and degradability: Degradability of inorganic substances is not determined
Bio-accumulative Potential: Soluble in water, therefore not expected to bio-accumulate.
Mobility in soil: Mobile in soil.
Other adverse effects: Not determined.

SECTION 13
DISPOSAL CONSIDERATIONS

Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Waste: Open dumping or burning of this product 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.

Container: Emptied containers retain product residues. Do not re-use the empty container for any other purpose. Triple rinse empty containers by inverting the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner. Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company. Observe all labelled safeguards until container is destroyed.

SECTION 14
TRANSPORT INFORMATION

UN Number: 3077

Road Transport ADR/IRD:
Class: 9
Packaging group: III
UN Proper Shipping Name: Environmentally hazardous substance, Solid, N.O.S.

Maritime Transport IMDG/IMO:
Class: 9
Packaging group: III
UN Proper Shipping Name: Environmentally hazardous substance, Solid, N.O.S.
Marine Pollutant (Y/N): Yes.

Air Transport IATA/ICAO:
Class: 9
Packaging group: III
UN Proper Shipping Name: Environmentally hazardous substance, Solid, N.O.S.

Special/Environmental Precautions: Wedge drums tightly to avoid movement.

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/substance:
OHSA 1993 Regulations for Hazardous Chemical Substances.

Relevant information regarding restrictions: None.

EU regulation: Regulation EC1272/2008 (EU-GHS/CLP)

Other national regulations: None.

Chemical Safety Assessment carried out? No

SECTION 16
OTHER INFORMATION

PACKAGING:
Packed in 5 kg plastic bags labelled according to South African regulations and guidelines.

DISCLAIMER:
The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.