

PHOSCAP 15 GR

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: PHOSCAP 15 GR
Other identifier: Ethoprophos 150 GR
Recommended use: Insecticide, Nematicide
Restrictions on use: Agriculture

Supplier: Universal Crop Protection (Pty) Ltd.
Co. Reg. No.: 1983/008184/07
 PO Box 801,
 Kempton Park, 1620, South Africa

Telephone: (011) 396 2233

Fax: (011) 396 4666

Website: www.villacrop.co.za

Emergency telephone numbers:

24 Hr Transport / Spill emergency no:

Envirosure. +27 31 205 4918

(Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)

Griffon Poison Information Centre +27 82 446 8946

(Client: Villa Crop Protection)

Poisoning Emergency telephone numbers:

Griffon Poison Information Centre +27 82 446 8946

Poisons Information Centre +27 861 555 777

Villa Crop Protection Emergency number:

National Safety, Health and Environmental Manager:

+27 63 698 0668

2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008

Hazard classes	Hazard categories	H-statements
Health		
Oral	Acute Tox. 4	H302
Dermal	Acute Tox. 2	H310
Skin Sensitization	Skin Sens. 1	H317
Inhalation	Acute Tox. 3	H331
Environment		
Aquatic Acute	Aquatic Acute 2	H401
Aquatic Chronic	Aquatic Chronic 2	H411

The most important adverse effects:

Physiochemical effects:

None known.

Human health effects:

Harmful if swallowed.

Fatal in contact with skin.

Toxic if inhaled.

Label elements:



Signal word: Danger.

Hazard statements:

H302: Harmful if swallowed.

H310: Fatal in contact with skin.

H317: May cause an allergic skin reaction.

H331: Toxic if inhaled.

H401: Toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

Precautionary statements:

P261: Avoid breathing mists, vapours or spray.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash hands and face thoroughly after handling.

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

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

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing.

P302/352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.

P304/340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310: Immediately call a POISON CENTER.

P333/313: If skin irritation or rash occurs: Get medical advice.

P361/364: Take off immediately all contaminated clothing and wash before reuse.

P391: Collect spillage.

P405: Store locked up.

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: Cat. 2

Classification according to WHO: Cat. II

Classification according to GPIC (Active): Cat. Ia

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture.

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Composition:

Chemical Name	CAS	Conc. (M/m %)	Classification EC 1272/2008
Ethoprophos 95% TC	13194-48-4	15%	Acute Tox. 3 (H301) Acute Tox. 1 (H310) Skin Sens. 1 (H317) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

Specific hazards: The product itself does not burn. In the event of fire, carbon monoxide (CO), nitrogen oxides (NO_x) can be released.

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 fumes/dust from burning materials. Remove bags/plastic 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 bags/plastic 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 bunker gear.

4. FIRST AID MEASURES

This product contains an anticholinesterase compound. Do not use/work with, if under medical advice. In the case of accident or if you feel sick, seek medical advice immediately (show the label and SDS where possible).

Inhalation: Remove source of contamination or move victim to fresh air. Keep affected person warm and at rest. Supply oxygen if necessary. Treat symptomatically and supportively. **Seek medical advice immediately.**

Skin contact: Remove contaminated clothing, shoes and leather goods immediately. Gently wipe of any chemical. Wash skin gently and thoroughly with water and non-abrasive soap. **Seek medical advice immediately.**

Eye contact: Rinse eyes thoroughly with plenty of gently flowing cold water or saline solution for at least 15 - 20 minutes and consult a physician.

Ingestion: Wash out mouth with abundant water. Induce vomiting only, if patient is fully conscious, (vomit should not get into the respiratory tract). Keep patient calm and protect against loss of heat.

Anticipated acute effects: None known.

Anticipated delayed effects: None known.

Most important symptoms/effects: Symptoms of cholinesterase inhibition (gastrointestinal disturbances, dyspnoea, narrowing of the respiratory passages, bradycardia, miosis, clonic spasms).

Advice to physician: Call in a physician immediately and show him the SDS.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Extinguish fires with carbon dioxide (CO₂), dry powder or alcohol-resistant foam. Avoid water getting into contact with the product.

Unsuitable Extinguishing Media: Water. Use water spray only to cool heated containers.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes and skin. Do not breathe in spray mist or dust. Ventilate area of spill or leaks, 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 firefighting personnel, evacuate unprotected personnel and animals.

Environmental Precautions: Prevent spilled product from entering sewers, waterways or ground water. This product is classified to be toxic to aquatic organisms and will cause long-term adverse effects in the aquatic environment. Any spillage or uncontrolled discharge into watercourses should be reported immediately to the police and the Department of Water/Environmental Affairs.

Methods and Materials for Containment: Contain spilled product by picking up with an electrically protected vacuum cleaner or by wet brushing and transfer to a container for disposal. Do not create a powder cloud by using a brush or compressed air.

Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container/bag. Do not re-use spilled material. Collect washings and add to the drums. 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.

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7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Avoid contact with eyes and skin. Ensure adequate ventilation during handling and use. Do not handle broken containers/bags without protective clothing/equipment. Immediately clean up spills that occur during handling. Keep containers/bags tightly 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 product. 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 the product in its bag/original labelled container tightly closed, in an isolated, dry, cool and well-ventilated area. Avoid excessive heat. Do not store this product 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: HDPE packaging in carton box or HDPE packaging in aluminium foil + Kraft bags.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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: If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use a NIOSH approved air-purifying respirator with cartridges/canisters approved for organic vapours/mist/dust.

Hand Protection: Employee must wear appropriate chemical resistant protective rubber gloves to prevent contact with this product.

Eye Protection: Employee must wear splash-proof safety goggles/face-shield to prevent contact with this product.

Skin and Body Protection: Employee must wear appropriate chemical-resistant protective clothing, e.g.; coveralls, rubber boots, hat and other equipment to

prevent repeated or prolonged skin contact with this product.

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this product; the employer should provide an eyewash fountain or appropriate alternative within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light grey to dark grey, Amorphous solid granule.

Odour: Slight mercaptan odour.

pH (1% aqueous dilution): 4.0 - 7.0 @ (25°C).

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: Not available.

Flammability: Non-flammable.

Upper/lower explosion limits: Only slight fire and explosion hazard when exposed to heat or flame.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density/Relative density: 0.77 g/cm³

Solubility: Not available.

n-octanol/water partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: Not available.

10. STABILITY AND REACTIVITY

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.

Reactivity: None known.

Possibility of Hazardous Reactions: No hazardous reactions when stored and handled according to prescribed instructions.

Conditions to Avoid: Avoid flames, heat and high temperatures.

Incompatible Materials: None known.

Hazardous Decomposition Products: Product undergoes decomposition at high temperatures. Avoid heating above ambient temperature.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Formulated product.

Calculated according to WHO.

Oral LD₅₀ (24 h) rat >392 mg/kg.

Dermal LD₅₀ (24 h) rat >173 mg/kg.

Calculated according to GHS.

Oral LD₅₀ (24 h) rat >413 mg/kg.

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Dermal LD₅₀ (24 h) rat >173 mg/kg.
Inhalation LC₅₀ (4 h) rat 0,82 mg/ℓ.
Skin Irritation/Corrosion: Not available.
Eye Irritation/Corrosion: Not available.
Skin Sensitization: May cause an allergic skin reaction.
Respiratory Sensitization: Not available.
Reproductive cell mutagenicity: Not available.
Carcinogenicity: Not available.
Reproductive toxicity: Not available.
Specific target organ toxicity – single exposure: Not available.
Specific target organ toxicity – repeated exposure: Not available.
Aspiration hazard: Not available.
Chronic Effects: Not available.
POTENTIAL ADVERSE EFFECTS:
Inhalation: Toxic if inhaled.
Skin contact: Fatal in contact with skin.
Eye contact: Not available.
Ingestion: Harmful if swallowed.

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA: Based on the active ingredient.

Ethoprophos

Fish:

LC ₅₀ (96 h)	Rainbow trout	13.8 mg/ℓ
	Bluegill sunfish	2.1 mg/ℓ
	Goldfish	13.6 mg/ℓ

Birds:

Acute oral LD ₅₀	Mallard ducks	61 mg/kg.
	Hens	5.6 mg/kg.

Plants: In plants such as haricot beans and maize, ethoprophos is rapidly broken down into non-toxic metabolites such as methyl propyl sulphide, methyl propyl sulfoxide and methyl propyl sulfone. Although it enters the root system of plants, ethoprophos cannot be considered to be systemic, as it is not carried into the aerial parts. Therefore, it usually leaves no detectable residues.

ENVIRONMENTAL EFFECTS:

Animal: In rats, the principal metabolite is O-ethyl-S-propylphosphothioic acid, which is more toxic than ethoprophos itself.

Persistence and degradability: DT₅₀ in humus-containing soil (pH 4.5) c. 87 d; in sandy loam (pH 7.2-7.3) c. 14-28 d (J.H Smelt *et al.*, *Pestic. Sci.*, 1977, 8, 147-151). Freundlich K 1.08 (sandy loam, o.m. 1.0%), 1.24 (sandy loam, o.m. 1.98%), 2.10 (silt loam, o.m. 2.3%), 3.78 (silty clay loam, o.m. 4.1%).

Mobility in soil: Not determined.

Other adverse effects: Not determined.

13. DISPOSAL CONSIDERATIONS

Waste: 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 this product or used containers/bags. Comply with local legislation applying to waste disposal. The product containers/bags may be taken to a registered waste disposal site or incineration plant.

Container: Emptied containers/bags retain dust and product residues. Do not re-use the empty container/bag for any other purpose. Empty containers by inverting the container over the spray or mixing tank. Thereafter, rinse the container three times with a volume of water equal to a minimum of one third of that of the container. Destroy the container/bag by perforating and flattening and dispose of through an approved waste dumpsite, incineration plant or recycling company. Observe all labelled safeguards until container is destroyed.

14. TRANSPORT INFORMATION

UN Number: 2783

Road Transport ADR/IRD:

Class: 6.1

Packaging group: II

UN Proper Shipping Name: Organophosphorus

Pesticide, Solid, Toxic

(Ethoprophos 150 g/kg)

Maritime Transport IMDG/IMO:

Class: 6.1

Packaging group: II

UN Proper Shipping Name: Organophosphorus

Pesticide, Solid, Toxic

(Ethoprophos 150 g/kg)

Marine Pollutant (Y/N): YES

Air transport IATA/ICAO:

Class: 6.1

Packaging group: II

UN Proper Shipping Name: Organophosphorus

Pesticide, Solid, Toxic

(Ethoprophos 150 g/kg)

Special/Environmental Precautions: None known.

Transport in bulk (according to MARPOL 73/78, Annex II and the IBC code): Not available.

15. REGULATORY INFORMATION

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

OHSA 1993 Regulations for Hazardous Chemical Substances.

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Relevant information regarding restrictions: None.

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

Other national regulations: None.

Chemical Safety Assessment carried out? No

16. OTHER INFORMATION

Packaging: Packed in 1, 5, 10, 15, 20 & 25 kg HDPE packaging in carton box or HDPE packaging in aluminium foil + Kraft bags and labelled according to South African regulations and guidelines.

Additional H-statement (s) (formulants)

H301: Toxic if swallowed.

H330: Fatal if inhaled.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

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.

END OF DOCUMENT

Compiled: October 2018

Reviewed: March 2019

Revision no.: (2)

Next revision: March 2024

For detailed information on revisions, contact the Registration holder.