

UNIVERSAL TERRACLOR® 75 WP

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF PRODUCT AND COMPANY

Trade Name: TERRACLOR® 75 WP
 Fungicide
UN No: 3077
Company: 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. COMPOSITION / INFORMATION ON INGREDIENTS

Common name: Quintozene / PCNB
Chemical name: Pentachloronitrobenzene (IUPAC)
CAS No.: [82-68-8]
Chemical Family: aromatic hydrocarbon;
 chloro/nitrophenyl
Chemical Formula: C₆Cl₅NO₂ (Mol. wt.: 295.3)
Use: Seed and soil, contact fungicide for control of damping-off diseases on various crops.
Formulation: **Quintozene:** 750 g/kg
 Wettable powder

Hazardous ingredient:

<u>Inert:</u>	<u>Concern:</u>
PCNB	Dermatitis
Hexachlorobenzene	Carcinogen but very low concentrations – therefore not classified as a carcinogen in this formulation.

SYMBOLS: Xi
RISK-PHASE(S): R20/22, R36/38, R 43, R45, R51
Safety phrases: S 2, S 13, S 23, S 24/25, S 36/37/39

3. HAZARD IDENTIFICATION

Toxicity class: EPA (formulation) III. Irritating to the skin and eyes.
Likely routes of exposure: Ingestion, inhalation and skin contact.
Eye contact: May cause mild eye irritation.
Skin contact: Minimally toxic. May cause mild skin irritation.
Ingestion: Slightly toxic by ingestion.
Inhalation: Slightly toxic by inhalation.

4. FIRST AID MEASURES AND PRECAUTIONS

Ingestion: Call a poison control centre or doctor immediately for treatment advice.
 Have person sip a glass of water if able to swallow. Contact a physician immediately.
 Do not induce vomiting unless told to do so by the poison control centre or doctor.
 Do not give anything by mouth to an unconscious person.
Skin: Remove contaminated clothing. Wash thoroughly with soap and clean water. If a rash or any of the symptoms of acute exposure appear, contact a physician immediately.
Inhalation: Remove victim to fresh air. If breathing has ceased, clear the victim's airway and start artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Contact a physician immediately.
Eye contact: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for further treatment advice.
Note to physician: Treat symptomatically. For medical information contact your local or national poison control centre.

5. FIRE FIGHTING MEASURES

Fire and explosion hazard: Flammability: This product contains a combustible solid that will support fire if it is preheated (NFPA rating = 1).
Extinguishing agents: Extinguish small fires with carbon dioxide, dry powder, halon or alcohol-resistant foam. Water spray or fog can be used for larger fires or cooling of unaffected stock, but avoid coming into contact with the product. Use as little water as possible. Use spray or fog. Solid stream may cause spreading. Contain water used for fire fighting for later disposal. Avoid the accumulation of polluted run-off from the site.

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Firefighting: Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire.

Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal.

Dyke fire control water for later disposal. Do not scatter the material. Avoid pollution of waterways.

Do not use high volume water jet, due to contamination risk. Contain water used for fire fighting for later disposal. Avoid the accumulation of polluted run-off from the site

Personal protective equipment: Fire may produce irritating or poisonous vapours (toxic oxides of nitrogen and corrosive bromine), mists or other products of combustion. Fire-fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal precautions: Remove all sources of flame and sparks. Avoid contact with skin and eyes. Do not inhale fumes. For personal protection see Section 8.

Environmental precautions: Do not allow to enter drains or water courses. When the product contaminates public waters, inform appropriate authorities in accordance with local regulations. **Considered a marine pollutant.**

Occupational spill: Do not touch spilled material; stop leak if you can do it without risk. Keep out unprotected persons and animals.

For spills: Soak up with absorptive material such as damp earth or sand or other suitable non-combustible absorbent material. Place the material into a clean, dry container and cover for subsequent disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Prevent material from spreading by damming in with absorptive material. Do not flush spilled material into drains. Keep spectators away and upwind.

To decontaminate spill area, tools and equipment, wash with a suitable solution (i.e. organic solvent, detergent bleach or caustic). Add the solution to the drums already collected. Label drums with its content and dispose it in accordance with local regulations.

Open burning or dumping of this material is prohibited.

Do not get water inside containers.

7. HANDLING AND STORAGE REQUIREMENTS

Handling: Do not operate near sources of ignition. Harmful by inhalation or if swallowed. Avoid contact with eyes, prolonged contact with skin, and inhalation of fumes. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Remove clothing immediately if the fungicide gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

Storage: Store in its original labelled container in a cool shaded, well-ventilated, dry area, away from heat, sparks and other sources of ignition. Not to be stored next to foodstuffs and water supplies. Keep out of reach of children and animals. Local regulations should be complied with.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT:

If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.

Respirator: An approved respirator suitable for protection from dusts and mists of pesticides is adequate. Limitations of respirator use specified by the approved agency and the manufacturer must be observed.

Clothing: Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

Gloves: Employee must wear appropriate synthetic protective gloves to prevent contact with this substance.

Eye protection: The use of safety goggles with side shields is recommended.

Emergency eye wash: Where there is any 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.

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ENGINEERING CONTROLS: Ventilation: Local ventilation is needed in the presence of airborne mists, sprays or aerosols and/or high vapour concentrations.

Teratogenicity: No tetarogenic information available.
Mutagenicity: No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Fine powder.
Colour: Off-white to light tan.
Odour: Slight musty odour.
pH: Not determined.
Solubility in organic solvents:
 methanol: 20 g/l
 toluene 1140 g/l
 heptane 30 g/l
Partition-coefficient in n-octanol / water:
 (data for technical material)
 $K_{ow} \log P = 5.1$
Specific gravity: 1907 kg/m³ (21 °C)

10. STABILITY AND REACTIVITY

Stability: Chemically and thermally stable. React with strong bases.
Storage stability: Stable for a period of 2 years under normal warehouse conditions.
Conditions and Materials to Avoid: Keep the product in a cool, dry place, at below 30 °C. Protect from sunlight, open flame and sources of heat. Avoid contact with strong bases.
Hazardous decomposition products: Fire may produce harmful combustion products which are toxic and irritating.
Incompatible materials: Oxidizing agents, Strong acids, Strong bases, Oxides of carbon, Oxides of nitrogen.
Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀: *Formulation:* > 5000 mg/kg in rats
Acute dermal LD₅₀: *Formulation:* > 2000 mg/kg for rabbits
Acute inhalation LC₅₀: *Formulation:* 0.25 mg/l in rats (4 h)
Acute skin irritation: Slight irritant (rabbits).
Acute eye irritation: Mild irritant (rabbits). Is a skin sensitizer.
Carcinogenicity: Laboratory studies have shown some carcinogenic effects and some developmental effects in laboratory animals. There is sufficient evidence that EPA has listed PCNB as a possible carcinogen. **The European Union has determined that no cancer classification is warranted. Technical PCNB does contain small amounts (< 0.05%) of HCB, a known carcinogen.**

12. ECOLOGICAL INFORMATION

Mobility, Degradability & Accumulation:
 Persists in soil, with a half-life of c. 4-10 months. Part is lost from the soil by volatilization. Biodegradation occurs, mainly to pentachloroaniline and also methylthiopentachlorobenzene.
 In plants, **Quintozene** undergoes conversion to pentachloroaniline, methylthiopentachlorobenzene and a variety of chlorophenyl methyl sulfoxides and sulfones.
Animals: In mammals, the major routes of elimination are as unchanged material in the faeces or as metabolites in the urine. In rats, sheep and monkeys, the principal metabolite is pentachloroaniline (formed by reduction of the nitro group). Other metabolites include pentachlorophenol, pentachlorothioanisole, pentachlorobenzene, bis-methyl-tetrachlorobenzene, methyl pentachlorophenyl sulfide and *N*-acetyl-S-pentachlorophenylcysteine.
ECOTOXICOLOGY (technical material):
 Non toxic to birds. Toxic to fish and aquatic organisms. Non toxic to bees.
Birds: Not toxic to birds.
 Oral LD₅₀ Mallard ducks: >2000mg/kg
Fish: Toxic to fish.
 LC₅₀ (96 hours): Sheepshead minnows: 0.55 mg/l
 Bluegill sunfish: 0.1 mg/l
Daphnia:
 LC₅₀ (48 hours): *Daphnia*: 0.77 mg/l
Bees: Not toxic to bees.
 LD₅₀ (contact): > 100 µg/bee
Other aquatic spp.:
 LC₅₀ (96 h): shrimps 0.012 ppm
 LC₅₀ (96 h): oyster 0.029 ppm

13. DISPOSAL CONSIDERATION

Pesticide disposal: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product that cannot be reused or reprocessed. Never pour untreated waste or surplus products 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.
Package product wastes: Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed. Empty the

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container of excess product into the container of the applicator. Destroy the emptied containers by perforation and flattening. Bury in an approved, designated landfill. Do not re-use the empty container for any other purpose. Comply with any local legislation applying to disposal. .

The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage 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.

14. TRANSPORT INFORMATION

UN NUMBER: 3077
Road Transport ADR/RID:
 Class: 9
 Packaging group: III
 Shipping name: Environmentally hazardous substance, solid, N.O.S.
 (Pentachloronitrobenzene 750 g/kg)
Maritime Transport IMDG/IMO:
 Class: 9
 Packing group: III
 Shipping name: Environmentally hazardous substance, solid, N.O.S.
 (Pentachloronitrobenzene 750 g/kg)
Considered a marine pollutant.

END OF DOCUMENT

Compiled: April 2008
Reviewed: June 2019
Revision no.: (3)
Next revision: June 2024

For detailed information on revisions, contact the Registration holder.

15. REGULATORY INFORMATION

Symbol: Xi
Indication of danger: Irritant
Risk phrase(s):
R 20/22 Harmful by inhalation and if swallowed.
R 36/38 Irritating to eyes and skin.
R 43 May cause sensitization by skin contact.
R45 May cause cancer.
R 51 Toxic to aquatic organisms.
Safety phrases:
S 2 Keep out of reach children.
S 13 Keep away from food, drink and animal feeding stuffs.
S 23 Do not breathe vapour/spray.
S 24/25 Avoid contact with skin and eyes.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

16. OTHER INFORMATION

Packaging: Packed in 1 kg, 2 kg, 5 kg & 10 kg plastic containers; in 1 kg, 2 kg, 5 kg, 10 kg sealed foil bags and 20 & 25 kg poly woven bags or 3 ply paper bags and labelled according to South African regulations and guidelines.

Disclaimer: The information on this sheet is not a specification; it does not guarantee specific properties.