

Document no:
Effective date:
Revision date (version):
Product code:

068UM April 2019 June 2022 (2) FTHI75W/U

# THIRAM 750 WP

# **SAFETY DATA SHEET**

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: THIRAM 750 WP
Other identifier: Thiram 750 g/kg
Recommended use: Fungicide
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:

(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

# 2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP]						
EU & SANS 10234:2008						
Hazard	Hazard	H-				
classes	categories	statements				
Health						
Oral	Acute Toxicity 5	H303				
Dermal	Acute Toxicity 5	H313				
	Skin Irritation 2	H315				
	Skin sensitization	H317				
	1					
Eye	Eye irritation 2	H319				
Inhalation	Acute Toxicity 4	H332				
Specific Target	STOT RE 2	H373				
Organ Toxicity						
Repeated						
Exposure						
Environment						
Aquatic acute	Aquatic acute 1	H400				
Aquatic chronic	Aquatic chronic 1	H410				

The most important adverse effects: Physiochemical effects: None known.

## **Human health effects:**

May be harmful if swallowed or in contact with skin. Causes skin irritation and serious eye irritation.

May cause an allergic skin reaction.

Harmful if inhaled.

May cause damage to liver through prolonged or

repeated exposure (oral).

## Label elements:



# **Signal word:** Warning **Hazard statements:**

H303: May be harmful if swallowed.

H313: May be harmful in contact with skin.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H373: May cause damage to liver through prolonged or repeated exposure (oral).

H400: Very toxic to aquatic life.

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

## **Precautionary statements:**

P261: Avoid breathing dust or spray.

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

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

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release into the environment.

P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.

P301+P302+P304+P317: IF SWALLOWED,

INHALED OR ON SKIN: Get medical help.

P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.

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 so. Continue rinsing.

P319: Get medical help if you feel unwell.

P333+P317: If skin irritation or rash occurs: Get medical help.



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P337+P317: If eye irritation persists: Get medical help. P362+P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

P501: Dispose of content/container to suitable landfill in accordance with local regulations.

Other hazards: None known. Toxicity:

Classification according to GHS: Category 4

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Composition:

Chemical name	CAS	Conc. (m/m %)	Classification EC 1272/2008
Thiram	137-26-	75 %	Acute Toxicity 4
	8		(H302)
			Skin Irritation 2
			(H315)
			Skin
			sensitization 1
			(H317)
			Eye irritation 2
			(H319)
			Acute Toxicity 4
			(H332)
			STOT RE 2
			(H373)
			Aquatic Acute 1
			(H400)
			Aquatic Chronic
			1 (H410)

#### 4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure and consult a doctor.

**Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. **Seek medical attention.** 

**Skin:** 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 occurs.** 

**Eyes:** Flush eyes with clean water for at least 15 - 20 minutes. Lift eyelids to facilitate irrigation. If present,

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remove contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation persists. 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.

## **Anticipated acute effects:**

May be harmful if swallowed or in contact with skin. Causes skin irritation and serious eye irritation.

May cause an allergic skin reaction.

Harmful if inhaled.

Anticipated delayed effects: May cause damage to liver through prolonged or repeated exposure (oral). Most important symptoms / effects: None known. Advice to physician: Treat symptomatically and supportively. No specific antidote known.

#### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Use carbon dioxide or dry chemical for small fires and water fog or foam for large fires.

**Unsuitable Extinguishing Media:** High volume water jet. Use a water jet only to cool heated containers.

**Specific hazards:** In fire situations or exposure to heat, toxic oxides of nitrogen and oxides of sulfur 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. Remain upwind of fire. 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.



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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid contact with skin and eyes. Do not breathe in spray mist or dust. 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 firefighting personnel, evacuate unprotected personnel and animals.

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

**Methods and Materials for Containment:** Contain spilt product by diking area with sand or earth.

Methods and Materials for Clean-up: Contain spilt 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 spilt material back in original container. Do not re-use spilt material. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. Collect washings and add to the drums already collected. Do not flush spilt material or washings into drains or waterways. See section 13 for disposal considerations.

# 7. HANDLING AND STORAGE

# Handling:

Precautions for safe handling: May be harmful if swallowed. Avoid contact with skin and eyes. Do not inhale spray mist or dust. 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 under lock and key and 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 containers & paper bags.

# 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### **Permissible concentration**

Components	Exposure limits	Type of exposure limit	Source
Thiram	5 mg/m <sup>3</sup>	Up to 10- hour TWA	"www.osha.gov"

# **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 with cartridges / canisters approved for organic vapours.

**Hand Protection:** Employees must wear chemically protective impervious gloves to prevent against skin contact.



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Eye Protection: Employees must wear chemical safety goggles to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: Employees must wear appropriate protective impervious clothing, boots, hat and equipment to prevent repeated or prolonged skin contact with this substance.

**Emergency evewash:** 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to pale yellow free flowing fine

powder.

Odour: Slight characteristic odour. Odour threshold: Not available.

pH (1% aqueous dilution): Not available.

Melting point: Not available. Freezing Point: Not available. Boiling Point: Not available. Flash Point: Not applicable. Flammability: Not applicable.

**Upper / lower explosion limits:** Not applicable. Vapour Pressure (mm Hg): Not available. Relative Vapour Density: Not available.

Density / Relative density: Approximately 1.4 g/ $\ell$ . Solubility: Disperses to form a stable suspension.

Slightly soluble in water.

n-octanol / water partition coefficient: Not

available.

Auto-ignition temperature: Not applicable. **Decomposition temperature:** Not available.

Viscosity: Not applicable.

## 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: None known.

Possibility of hazardous reactions: Unlikely to

Conditions to avoid: Extreme heat or exposure to

flames.

Incompatible materials: Reacts with acids to form carbon disulfide and hydrogen sulphide. Do not use in tank mixture with lime sulphur, copper, lime, acidifying agents, phosphorous agents or other pH sensitive products.

Hazardous decomposition products: Heating to decomposition generates carbon disulfide and oxides of carbon, nitrogen and sulfur. Acid decomposition may evolve carbon disulfide and hydrogen sulphide.

## 11. TOXICOLOGICAL INFORMATION

#### **ACUTE TOXICITY:**

Calculated according to GHS.

**Oral LD**<sub>50</sub> (24h) > 2000 mg/kg (rat)**Dermal LD**<sub>50</sub> > 2500 mg/kg (rat)

Inhalation LC<sub>50</sub> (4h) > 4.4 mg/ $\ell$  (rat)

Skin Irritation / Corrosion Causes skin irritation. Eye Damage / Irritation: Causes serious eye irritation.

Skin Sensitization: May cause an allergic skin

reaction.

Respiratory Sensitization: Not classified. Reproductive 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: May cause damage to liver through

prolonged or repeated exposure (oral). Aspiration hazard: Not classified. Chronic Effects: Not available. **POTENTIAL ADVERSE EFFECTS:** Inhalation: Harmful if inhaled.

**Ingestion:** May be harmful if swallowed. **Skin:** May be harmful in contact with skin.

# 12. ECOLOGICAL INFORMATION

This product is very toxic to aquatic life with long lasting effects,

## **ECOTOXICITY DATA:**

**Thiram** 

Fish:

LC<sub>50</sub> (96 h) Rainbow trout 0.171 mg/ℓ Blueaill sunfish 0.13 mg/ $\ell$ Channel catfish 0.233 mg/ℓ



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Sheepshead 0.54 mg/ℓ minnows Daphnia:

EC<sub>50</sub> (48 h)

Algae:

E<sub>r</sub>C<sub>50</sub> (72 h) >0.141 mg/ℓ P. subcapitata

Birds:

Acute oral LD<sub>50</sub> Mallard ducks >2800 mg/kg 930 mg/kg Bobwhite quail

Dietary LD<sub>50</sub> (5d) Mallard ducks >5000 mg/kg diet

> Bobwhite quail >3950 mg/kg

diet

0.139 mg/e

Bees:

>100 µg/bee LD<sub>50</sub> contact LD<sub>50</sub> oral >107 µg/bee

Worms:

LC<sub>50</sub> (14 d) Earthworms 540 mg/kg

#### **ENVIRONMENTAL EFFECTS**

# Based on information for the active ingredient

Plants: Foliar application results mainly in unchanged thiram. Some conjugation to the glucoside is observed, followed by further degradation and incorporation. Application as a seed treatment results in extensive metabolism with residues incorporated into natural plant constituents.

Persistence and degradability: DT<sub>50</sub> (aerobic) 4.8 days (20°, mean of 4 soils).

Bio-accumulative potential: Rapid and extensive metabolism. Log Kow 1.84.

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 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. Empty containers by inverting the empty container over the spray or mixing tank. Thereafter, rinse the container three times with a volume of water equal to a quarter of that of the container. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages. Observe all labelled safeguards until container is destroyed.

# 14. TRANSPORT INFORMATION

UN Number: 3077

**Road Transport ADR / ORD:** 

Class: 9 Packaging group:

**UN Proper Shipping Name: ENVIRONMENTALLY** HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thiram

**Maritime Transport IMDG / IMO:** Class:

Ш Packaging group:

**UN Proper Shipping Name: ENVIRONMENTALLY** HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thiram 750 g/kg)

Marine pollutant (Y/N): Yes Air Transport IATA / ICAO:

Class: 9 Packaging group: Ш

**UN Proper Shipping Name: ENVIRONMENTALLY** HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thiram 750 g/kg)

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

Transport in bulk: Refer to MARPOL 73/78, Annex II and the IBC code.

# 15. REGULATORY INFORMATION

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

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



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#### 16. OTHER INFORMATION

**Packaging:** Packed in 1, 2, 5, 10, 20 and 25 kilogram plastic containers and paper bags labelled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

H302: Harmful if swallowed.

IATA: International Air Transport Association.

**IBC:** International Bulk Chemical.

**ICAO:** International Civil Aviation Organization. **IMDG:** International Maritime Dangerous Goods

IMO: International Maritime Organization.

**LD**<sub>50</sub> **value:** The median lethal dose or the amount of a toxic agent that is sufficient to kill 50 percent of a population within a certain period of time.

**OEL/RL:** Occupational exposure limit-recommended

limit.

**TWA:** Time-weighted average – The average exposure over a specified period, usually a nominal eight hours.

ST/STEL: Short-term exposure limits.

**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**

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**Next revision:** June 2027

For detailed information on revisions, contact the Registration holder.