

TRIMPLE 1110 AL

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: TRIMPLE 1110 AL
Other identifier: 1,3-Dichloropropene
Recommended use: Insecticide / Nematicide
Restrictions on use: Agriculture, Soil fumigant nematicide

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 classes	Hazard categories	H-statements
Physical		
Flammable	Flammable liquid 3	H226
Health		
Oral	Acute Toxicity 3	H301
Dermal	Acute Toxicity 3 Skin Irritation 2 Skin sensitisation 1	H311 H315 H317
Eye	Eye irritation 2	H319
Specific Target Organ Toxicity (Single exposure)	STOT RE 3	H335
Aspiration	Aspiration Toxicity 1	H304
Inhalation	Acute Toxicity 4	H332
Environment		
Aquatic acute	Aquatic acute 1	H400
Aquatic chronic	Aquatic chronic 1	H410

The most important adverse effects:

Physiochemical effects:

Flammable liquid and vapour.

Human health effects:

Toxic if swallowed.

Toxic in contact with skin.

Harmful if inhaled.

Causes skin irritation.

May cause an allergic skin reaction

Causes serious eye irritation.

May causes respiratory irritation.

May be fatal if swallowed and enters airways.

Label elements:



Signal word: Danger

Hazard statements:

H226: Flammable liquid and vapour.

H301: Toxic if swallowed.

H304: May be fatal if swallowed and enters airways.

H311: Toxic in contact with skin.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H400: Very toxic to aquatic life.

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

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P261: Avoid breathing dust, fumes, mists, gas, vapours or spray.

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

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

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+P310: IF SWALLOWED: Immediately call a POISON CENTER.

P301+P316: IF SWALLOWED: Get emergency medical help immediately

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P302+352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [shower].
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312: Call a poison centre/doctor if you feel unwell.
P316: Get emergency medical help immediately.
P317: Get medical help.
P330: Rinse mouth.
P331: Do NOT induce vomiting.
P332+P317: If skin irritation occurs: get medical help.
P333+P313: If skin irritation or rash occurs: Get medical advice.
P337+P317: If eye irritation persists: Get medical help.
P361+364: Take off immediately all contaminated clothing and wash before reuse.
P362+P364: Take off contaminated clothing and wash it before reuse.
P370+P378: In case of fire: Use carbon dioxide or dry chemical to extinguish small fires and water fog or foam for large fires.
P391: Collect spillage.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.
P501: Dispose of content/container to suitable landfill in accordance with local regulations.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Category 3

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Composition:

Chemical name	CAS	Conc. (m/v)	Classification EC 1272/2008
1,3-Dichloropropene	542-75-6	96.52 %	Flam. Liq. 3 (H226) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Acute Tox. 4 (H332)

			Asp. Tox. 1 (H304) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
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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.

Inhalation: Remove person from contaminated area or move the victim to fresh air. Keep affected person warm and at rest. Supply oxygen if necessary. Treat symptomatically and supportively. Seek medical attention if irritation occurs. **Seek medical attention if you feel unwell after inhalation.**

Skin: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. **TRIMPLE 1110 AL** may cause an allergic skin reaction. 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.**

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.

Anticipated acute effects:

Toxic if swallowed.

Toxic in contact with skin.

Harmful if inhaled.

Anticipated delayed effects: None known.

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 alcohol-resistant foam for large fires. Water spray can be used for cooling of unaffected stock but avoid water coming in contact with the product. Use as little water as possible. Use spray or fog. Solid stream may cause spreading. Contain water used for firefighting for later disposal. Avoid the accumulation of polluted run-off from the site.

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

Specific hazards:

Fire/Explosion hazard:

Flammable. Fire risk. Flash point: 28 °C.

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Toxic, irritating vapours may occur under fire conditions. Keep vapours away from possible ignition sources

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: Fire may produce irritating or poisonous vapours or gases (oxides of chlorine and sulphur) or other products of combustion. Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus. Wear NIOSH / MSHA approved self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with eyes and skin. Do not breathe in spray mist or fumes / vapours. 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: In case of spills properly dispose of contaminated materials. **1,3-Dichloropropene** is known to move through soil and under certain conditions has the potential to reach ground water as a result of agricultural use. Application in areas where soils are permeable and ground water is near the surface could result in ground water contamination. Do not apply within 100 feet of any well used for potable water. Do not apply in areas overlying karst geology. Do not apply on directly to water, to areas where surface water is present or to intertidal areas below the mean mark. Do not contaminate water by disposal of equipment wash waters 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 spilled product by diking area with sand, vermiculite or earth.

Methods and Materials for Clean-up: Cover contained spill with an inert absorbent material such as sand, vermiculite, damp 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. Open burning or dumping of this material is prohibited.

Do not get water inside containers. Do not place spilled material back in original container. Do not re-use spilled 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.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Toxic if swallowed and in contact with skin. Harmful if inhaled and causes serious eye irritation. Ensure adequate ventilation during handling and use. Do not inhale spray mist or vapours. 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. Do not store near heat, open flame, sources of ignition or hot surfaces. 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: Fluorinated plastic containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
1,3-Dichloropropene	1 ppm	TWA	"Hazardous Chemical Substances Regulations, 1995" or "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

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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: The use of chemically protective impervious 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: Employees must wear appropriate protective impervious clothing, rubber boots, hat and equipment to prevent repeated or prolonged skin contact with this substance. Do not wear leather clothing.

Emergency eyewash: 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: Light to straw-amber coloured liquid.

Odour: Penetrating, irritating, chloroform-like odour.

Odour threshold: Not available.

pH (1% aqueous dilution): 5 to 8.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: 28°C.

Flammability: Flammable. Fire risk.

Upper / lower explosion limits: Not available.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density / Relative density: 1.22 g/mg at 20°C.

Solubility: Approximately 0.1 %.

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: 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: 1,3-DICHLOROPROPENE reacts vigorously with oxidizing materials.

Possibility of hazardous reactions: Unlikely to occur.

Conditions to avoid: Extreme heat or exposure to flames. May form explosive mixtures with air when confined.

Incompatible materials: Strong oxidizers, strong bases, strong reducing agents.

Hazardous decomposition products: Alcohols, carbon monoxide and carbon dioxide may form under burning conditions or with incomplete combustion.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Oral LD₅₀ (24h) > 155 mg/kg (rat)

Dermal LD₅₀ > 345 mg/kg (rabbit)

Inhalation LC₅₀ (4h) 2.8 mg/l (rat)

Skin Irritation / Corrosion: Causes skin irritation.

Eye Damage / Irritation: Causes serious eye irritation.

Skin Sensitization: Product may cause an allergic skin reaction.

Respiratory Sensitization: May cause respiratory irritation.

Reproductive cell mutagenicity: Not available.

Carcinogenicity: Not available.

Reproductive toxicity: Not available.

Specific target organ toxicity – single exposure: May cause respiratory irritation.

Specific target organ toxicity – repeated exposure: Not available.

Aspiration hazard: May be fatal if swallowed and enters airways.

Chronic Effects: Not available.

POTENTIAL ADVERSE EFFECTS:

Inhalation: Harmful if inhaled.

Ingestion: Toxic if swallowed.

Skin: Toxic in contact with skin.

Other information: Not available.

12. ECOLOGICAL INFORMATION

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

ECOTOXICITY DATA: Active ingredient.

Fish:

LC ₅₀ (96h)	Rainbow trout	2.78 mg/l
	Bluegill sunfish	7.1 mg/l
	Sheepshead minnows	0.87 mg/l

Daphnia:

LC ₅₀ (48h)		3.58 mg/l
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Algae:

E _b C ₅₀ (72h)	<i>Selenastrum capricornutum</i>	14.9 mg/l
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	<i>Skeletonema costatum</i>	13.4 mg/l
(120h)	<i>Navicula pelliculosa</i>	3.64 mg/l
	<i>Anabaena flos-aquae</i>	64.3 mg/l
E _r C ₅₀ (72h)	<i>S.capricornutum</i>	13.6 mg/l
	<i>S. costatum</i>	18.7 mg/l
(120h)	<i>N.pelliculosa</i>	5.84 mg/l
	<i>A. flos-aquae</i>	96.3 mg/l
Birds:		
Acute oral LD ₅₀	Bobwhite quail	140 mg/kg
Dietary LD ₅₀ (5d)	Mallard ducks	>5620 mg/kg diet
	Bobwhite quail	>5620 mg/kg diet
Bees:		
LD ₅₀		6.6 µg/bee
Worms:		
LC ₅₀ (14d)	<i>Eisenia fetida</i>	55.6 mg/kg soil

ENVIRONMENTAL EFFECTS

Animal: Excretion in rats occurred primarily as the mercapturic acid conjugate and its corresponding sulfoxide.

Environment: Non-persistence in soil, undergoing hydrolysis to the corresponding 3-chloroallyl alcohols.

Plants: Metabolism is rapid, progressing through 3-chloroallyl alcohol, 3-chloroacrylic and 3-chloro-10propanol, leading ultimately to normal plant constituents. Metabolism DT₅₀ for **1,3-Dichloropropene** 1.5h for 3-chloroallyl alcohol 4.4h (both calc.)

Persistence and degradability: Not determined.

Bio-accumulative potential: Not determined.

Mobility in soil: non-persistent in soil, undergoing hydrolysis to the corresponding 3-chloroallyl alcohols.

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. Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the

container volume fresh water and decant the rinsate into the spray or mixing tank.
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: 2047
Road Transport ADR / ORD:
Class: 3
Packaging group: III
UN Proper Shipping Name: **Dichloropropene** (1,3 Dichloropropene 1110 g/l)
Maritime Transport IMDG / IMO:
Class: 3
Packaging group: III
UN Proper Shipping Name: **Dichloropropene** (1,3 Dichloropropene 1110 g/l)
Marine pollutant (Y/N): Y
Air Transport IATA / ICAO:
Class: 3
Packaging group: III
UN Proper Shipping Name: **Dichloropropene** (1,3 Dichloropropene 1110 g/l)
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:
OHS 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

16. OTHER INFORMATION

Packaging: Packed in 5, 10, 20, 25 and 50 litres fluorinated plastic containers, labelled according to South African regulations and guidelines.
Other hazard statements, abbreviations and explanations: Not available.
IATA: International Air Transport Association.
IBC: International Bulk Chemical.
ICAO: International Civil Aviation Organization.
IMDG: International Maritime Dangerous Goods
IMO: International Maritime Organization.

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LD₅₀ 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

Compiled: May 2011

Reviewed: May 2022

Revision no.: (1)

Next revision date: May 2027

For detailed information on revisions, contact the Registration holder.