

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Tobaccoguard ULV

Use: Public Health, Insecticide

Company Name:

Coopers Manufacturing CC
Reg. No. 2004/015647/23
P.O. Box 14374
BREDELL 1623
SOUTH AFRICA
TEL: (011) 979-4246/7

Emergency Contact Numbers:

Poison Information Centre: 0861 555 777
Griffon Poison Information Centre: 082 446 8946

2. HAZARDS IDENTIFICATION

SANS 10234:2008, Regulation EC 1272/2008 [EU-GHS/CLP]		
Hazard classes	Hazard categories	Hazard codes
Skin sensitization	Category 1B	H317
Aspiration Toxicity	Category 1	H304
Aquatic Chronic	Category 1	H410

Hazard pictograms:



Signal word: Danger

Hazard statements:

H317: May cause an allergic skin reaction.
H304: May be fatal if swallowed and enters airways.
H410: Very toxic to aquatic life with long lasting effects.

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Precautionary statements:

- 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+P316: IF SWALLOWED: Get emergency medical help immediately.
 P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
 P331: Do NOT induce vomiting.
 P362+P364: Take off contaminated clothing and wash it before reuse.
 P391: Collect spillage.
 P405: Store locked up.
 P501: Dispose of content/container to suitable landfill in accordance with local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

Substance / Mixture: Mixture

Composition:

Chemical name	CAS No.	CONCENTRATION	GHS CLASSIFICATION
Permethrin	52645-53-1	5%	Acute Toxicity 4 (H302) Skin Sensitization 1 (H317) Acute Toxicity 4 (H332) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Hydrocarbon solvent	64742-47-8	> 90 %	Aspiration Toxicity 1 (H304)

4. FIRST AID MEASURES:

- Skin contact:** Remove contaminated clothing. Wash with plenty of water and non-abrasive soap.
- Eye contact:** Immediately wash eyes with copious amounts of clean water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Ingestion and overexposure:** Keep patient calm and reassured, rinse mouth with water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. DO NOT apply direct mouth to mouth respiration, use a disposable protective mouthpiece. Get emergency medical help immediately.

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Inhalation:	Immediately remove patient from source of poisoning to well-ventilated area and keep him quiet and reassured. If necessary, administer artificial respiration and oxygen or closed chest cardiac massage.
Note to physician:	No specific antidotes known. Symptomatic treatment and supportive therapy as indicated.
Symptoms of human poisoning:	May cause an allergic skin reaction. May cause a burning sensation in the mouth, numbness of the lips and tongue, headache, tremors, nausea, and in extreme cases abdominal pain, vomiting, diarrhoea and anaphylaxis. The solvent may be aspirated into the respiratory tract.

5. FIRE FIGHTING MEASURES:

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

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

Specific Hazards: Permethrin decomposes in a fire to emit fumes of hydrogen chloride, oxides of carbon and chlorine.

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. Remain upwind of fire. Avoid inhaling hazardous vapours and fumes from burning materials. Remove containers from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal.

Personal Protective Equipment: Wear NIOSH / MSHA approved self-contained breathing apparatus and full protective equipment to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions: Avoid contact with eyes. Do not breathe in spray mist, fumes or vapours. Ventilate area of spill or leak, especially in contained areas.

Protective equipment: As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

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 very toxic to aquatic organisms and may cause long-term

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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 or earth.

Methods and 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 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.

7. HANDLING AND STORAGE:

Handling:

Precautions for safe handling: May be harmful if swallowed and enters airways. Avoid breathing fume, vapours or spray. 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 referred to First Aid Measures – Section 4.

General occupational hygiene: Practice good hygiene when using this material. Avoid contact with eyes. 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 a dry, cool and well-ventilated area. Do not store near heat, open flame, sources of ignition or hot surfaces. Not to be stored next to foodstuffs, feed and water supplies. Avoid cross contamination with other pesticides and fertilizers.

Incompatible substances and mixtures: Incompatible with alkaline materials.

Packaging material: Fluorinated HDPE plastic bottles.

8. EXPOSURE CONTROL 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.

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Local exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below 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 poorly ventilated area (airborne concentration exceeds exposure limits), use a NIOSH approved mask with gas filter EN141 Type A for gases/vapours of organic compounds (boiling point >65 °C).

Hand Protection: The use of nitrile rubber gloves is recommended to prevent against skin contact.

Skin and Body Protection: Employees must wear protective clothing and rubber boots to prevent repeated or prolonged skin contact with this product.

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

Emergency eyewash: Where there is a possibility that any employee's eyes may be exposed to this product, 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:	A clear, straw-coloured liquid.
Odour:	Aromatic.
Odour threshold:	Not available.
pH (1% aqueous dilution):	Not available.
Melting point:	Not available.
Freezing point:	Not available.
Boiling point:	Not available.
Flash point:	77 °C (Closed cup).
Flammability:	Flammable.
Upper / lower explosion limits:	Not available.
Vapour pressure (mm Hg):	Not available.
Relative vapour density:	Not available.
Density / relative density:	Not available.
Solubility:	Product is emulsifiable in water.
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.

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Reactivity: None known

Possibility of hazardous reactions: Unlikely to occur.

Conditions to avoid: Extreme heat or exposure to flames.

Incompatible materials: Alkaline materials.

Hazardous decomposition products: Permethrin decomposes in a fire to emit fumes of hydrogen chloride, oxides of carbon and chlorine.

11. TOXICOLOGICAL INFORMATION:

ACUTE TOXICITY:

Calculated according to GHS guidelines:

Oral LD₅₀: > 5000 mg/kg (rat)

Dermal LD₅₀: > 5000 mg/kg (rabbit)

Inhalation LC₅₀: >5 mg/ℓ/4 hr (rat)

Skin Irritation / Corrosion: Not calculated.

Eye Damage / Irritation: Not calculated.

Skin Sensitization: Product is a skin sensitizer.

Respiratory Sensitization: Not calculated.

Germ Cell Mutagenicity: Not calculated.

Carcinogenicity: Not calculated.

Reproductive Toxicity: Not calculated.

STOT – Single Exposure: Not calculated.

STOT – Repeat Exposure: Not calculated.

Aspiration Hazard: May be harmful if swallowed and enters airways.

Chronic Effects: None known.

POTENTIAL ADVERSE EFFECTS:

Dermal exposure may cause an allergic skin reaction, causing redness and discomfort. Headaches, dizziness and hypersalivation can be experienced after long term exposure.

12. ECOLOGICAL INFORMATION:

ECOTOXICITY DATA: Based on Permethrin active ingredient.

Fish:

LC₅₀ (96 h) Rainbow trout 2.5 µg/ℓ

LC₅₀ (96 h) Bluegill 1.8 µg/ℓ

Daphnia:

LC₅₀ (48 h) 0.6 µg/ℓ

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Birds:

LD₅₀ (oral) Mallard ducks > 9800 mg/kg

Bees:

LD₅₀ (24 h) (oral) 0.098 µg/bee

Toxic to bees.

ENVIRONMENTAL EFFECTS: Based on Permethrin active ingredient

Plants: No information.

Persistence and degradability: Permethrin is not likely to be a hazard to the environment when used as recommended.

Bio-accumulative potential: Does not bio-accumulate.

Mobility in soil: Not available.

Other adverse effects: Very toxic to aquatic life with long lasting effects. Do not discharge product into sewers, waterways or municipal water systems.

13. DISPOSAL CONSIDERATIONS:

Waste: Open dumping or burning of this product is prohibited. Waste resulting from the use of this product cannot be reused or reprocessed. 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 waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

Container: Rinse the empty containers three times in succession with a volume of water equal to a quarter of that of the container. Destroy empty containers by perforation and flattening and dispose of in accordance with local/national regulations. DO NOT bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

14. TRANSPORT INFORMATION:

UN Number: **3082**

Road Transport ADR / ORD:

Class: 9

Packing group: III

UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (**Permethrin 10%**)

Maritime Transport IMDG / IMO:

Class: 9

Packing group: III

UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (**Permethrin 10%**)

Marine pollutant: Yes

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Air Transport IATA / ICAO:

Class: 9
Packing group: III
UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Permethrin 10%)

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 specific for the substance or mixture:

OHSA 2021 Regulations for Hazardous Chemical Substances.

Relevant information regarding restrictions: None.

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

Chemical Safety Assessment carried out? No.

16. OTHER INFORMATION:

Packaging: Packed in 5 and 25 litre plastic containers and labelled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

H332: Harmful if inhaled.

H400: Very toxic to aquatic life.

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road.

IATA: International Air Transport Association.

IBC: International Bulk Chemical.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Dangerous Goods.

IMO: International Maritime Organization.

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.

PEL: Permissible exposure limits.

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

ST/STEL: Short-term exposure limits.

STOT: Single target organ toxicity.

Disclaimer:

The data contained in this safety data sheet is based on our current knowledge and experience and describe the product only with regard to safety requirements. The information on this sheet is not a specification; it does not guarantee specific properties. Neither should any agreed property

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nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. 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. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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