

Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name: Coopers Ultrakill Wettable Powder

Use: Public Health

Company Name:

Starplex 83 CC
Reg. No. 2004/01564/23
P.O. Box 14374
BREDELL 1623
SOUTH AFRICA
TEL: (011) 979-4246/7

Emergency Contact Numbers:

Griffon Poison Information Centre - 082 446 8946
Poisons Information Centre – 0861 555 777

2. HAZARD 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
Eye	Eye Damage 1	H318
Inhalation	Acute Tox. 3	H331
Environment		
Aquatic chronic	Aquatic chronic 1	H410

The most important adverse effects:

Physiochemical effects: None known

Human health effects:

Causes serious eye damage. (Eye damage 1)
Toxic if inhaled (Acute Tox. 3)

Label elements:



Signal Word: Danger

Hazard Statements:

H302: Harmful if swallowed.
 H318: Causes serious eye damage.
 H331: Toxic if inhaled.
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P261: Avoid breathing dust, fume, gas, mists, 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.
 P273: Avoid release into the environment.
 P280: Wear eye protection.
 P301+P317: IF SWALLOWED: Get medical help.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
 P316: Get emergency medical help immediately.
 P330: Rinse mouth.
 P391: Collect spillage.
 P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 P405: Store locked up.
 P501: Dispose of content/container to suitable landfill in accordance with local regulations.

Other hazards: None known.

Toxicity: Acute tox. 3 (inhalation)
 Acute tox. 4 (oral)

3. COMPOSITION INFORMATION ON INGREDIENTS:

Substance / Mixture: Mixture

CAS NO	HAZARDOUS COMPONENT	CONCENTRATION	GHS CLASSIFICATION
91465-08-6	Lambda-cyhalothrin	10%	Acute tox. 3 (oral) Acute tox. 4 (dermal) Acute tox. 2 (Inhalation - dust) Aquatic Acute 1 Aquatic Chronic 1
9041-04-7	Alkyl naphthalene sulfonate, sodium salt	< 10%	Aquatic Chronic 3
1639-66-3	Sodium dioctyl sulphosuccinate	< 10%	Acute tox. 4 (oral)
9084-06-4	Alkyl naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	< 5%	Eye Damage 1

4. FIRST AID MEASURES:

Description of first aid measures:

Remove the victim from the area of exposure. In the event of any complaints or symptoms, consult a doctor.

Inhalation:	Keep patient calm, remove to fresh air. Keep comfortable for breathing. Get emergency medical attention immediately.
Skin contact:	Wash thoroughly with soap and water.
Eye contact:	Wash affected eyes for at least 15 minutes under running water with eyelids held open. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing.
Ingestion:	Get medical attention. Rinse mouth and then drink plenty of water. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless instructed to do so by a poison control center or doctor.
Symptoms:	No significant reaction of the human body to the product known.
Treatment:	Symptomatic treatment (decontamination, vital functions).

5. FIRE FIGHTING MEASURES:

Extinguishing media:

Suitable extinguishing media:

Dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons:

Carbon dioxide

Special hazards arising from the substance or mixture:

Carbon monoxide, hydrogen chloride, Carbon dioxide, nitrogen oxides, organochloric compounds

The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Collect spillage.

Methods and material for containment and cleaning up:

For small amounts: Sweep/shovel up.

For large amounts: Sweep/shovel up.

Avoid raising dust. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

7. HANDLING AND STORAGE:

Precautions for safe handling:

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

Avoid dust formation. Dust can form an explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Segregate from foods and animal feeds.

Further information on storage conditions:

Keep away from heat. Protect against moisture. Protect from direct sunlight.

Storage stability: 24 Months

Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION:

Permissible concentration:

None found.

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 extend of exposure.

Local exhaust: Provide general or local exhaust ventilation system 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: Use a NIOSH approved, air-purifying respirator with cartridges /canisters approved for dusts.

Hand protection: Wear suitable chemical resistant safety gloves.

Eye protection: Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection: Body protection must be chosen depending on activity and possible exposure, e.g. apron and rubber boots.

General safety and hygiene measures

Avoid contact with the skin, eyes and clothing. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Workers should shower at the end of each workday. Wash clothing before wearing it again. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Information on basic physical and chemical properties

Form:	Powder, free flowing
Colour:	White
Odour:	Odourless
pH value:	Approx. 4 - 10
Melting point:	Not known.
Boiling range:	Not known.
Flash point:	Not determined.
Evaporation rate:	Not applicable.
Flammability:	Not determined.
Lower explosion limit:	Not determined.
Upper explosion limit:	Not determined.
Vapour pressure:	The product has not been tested.
Density:	Not determined.
Relative vapour density (air):	Not determined.
Solubility in water:	Dispersible in water.
Partitioning coefficient n-octanol/water (log Kow):	Not applicable.
Self-ignition:	Not determined.
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	Not applicable.
Explosion hazard:	Based on the chemical structure there is no indicating of explosive properties.
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.

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:

No hazardous reactions if stored and handled as prescribed/indicated.

Possibility of hazardous reactions:

Hazardous reactions are unlikely to occur.

Conditions to avoid:

Extreme heat or exposure to flames.

Incompatible materials:

Strong bases, strong acids, strong oxidizing agents.

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. TOXICOLOGICAL INFORMATION:

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Experimental/calculated data:

LD ₅₀ rat (oral):	> 3,300 mg/kg
LD ₅₀ rat (dermal):	> 2,000 mg/kg
LC ₅₀ rat (by inhalation):	2.29 mg/ℓ 4 h (OECD Guideline 403)

Tested as dust aerosol.

Skin irritation / corrosion:

Not irritating to the skin.

Eye damage / irritation:

Causes serious eye damage.

Skin sensitization:

Product is not a skin sensitizer.

Respiratory sensitization:

Not a respiratory sensitizer.

Reproductive cell mutagenicity:

Not calculated.

Carcinogenicity:

Not calculated.

Reproductive toxicity:

Not calculated.

STOT SE:

Not calculated.

STOT RE:

Not calculated.

Aspiration hazard:

Not calculated.

Chronic effects:

None known.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Relevant to the active ingredient.

Assessment of aquatic toxicity:

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Calculated according to GHS guidelines.

Toxicity to fish: LC₅₀ (96 h) 0.0 028 mg/ℓ, *Oncorhynchus mykiss*

Aquatic invertebrates: EC₅₀ (48 h) 0.0003 mg/ℓ, *Daphnia magna* (

Aquatic plants: EC₅₀ (72 h) > 1 mg/ℓ (growth rate), *Scenedesmus subspicatus*

EC₅₀ (7 d) > 0.00139 mg/ℓ (growth rate), *Lemna gibba*

Chronic toxicity to fish: No observed effect concentration (34 d) 0,03 µg/ℓ,

Pimephales promelas

Persistence and degradability

Assessment biodegradation and elimination (H₂O): Not readily biodegradable (by OECD criteria).

Bio-accumulative potential

Assessment bioaccumulation potential: The product has not been tested. The statement has been derived from the properties of the individual components.

Bio-concentration factor: 910, *Cyprinus carpio*

Accumulation in organisms is not to be expected.

13. DISPOSAL CONSIDERATIONS:

Waste treatment methods

Open dumping or burning of this pesticide is prohibited. Never pour untreated waste or surplus product into public sewers or where there is a 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 a suitable incineration plant.

Contaminated packaging:

Do not re-use the empty container for any other purpose. Empty containers by inverting it 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 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:	3352
Road transport ADR / ORD:	
Class	6.1
Packaging group	I
UN Proper shipping name:	PYRETHROID PESTICIDE, LIQUID, TOXIC (Lambda-cyhalothrin)
Maritime transport IMDG / IMO:	
Class	6.1
Packaging group	I
UN Proper shipping name:	PYRETHROID PESTICIDE, LIQUID, TOXIC (Lambda-cyhalothrin)
Marine pollutant (Y/N):	Yes
Air transport ICAO/IATA:	
Class	6.1
Packaging group	I
UN Proper shipping name:	PYRETHROID PESTICIDE, LIQUID, TOXIC (Lambda-cyhalothrin)

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:

OSHA 1993 Regulations for Hazardous Chemical Substances.

Relevant information regarding restrictions: None.

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

Other national regulations: None.

Chemical Safety Assessment carried out? No

16. OTHER INFORMATION:

Packaging: Packed in 1,6 kg water soluble bags.

Other hazard statements, abbreviations and explanations:

H301: Toxic if swallowed.

H312: Harmful in contact with skin.

H330: Fatal if inhaled.

H400: Very toxic to aquatic life.

H412: Harmful to aquatic life with long lasting effects.

IATA: International Air Transport Association.

IBC: International Bulk Container.

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 SE: Specific target organ toxicity – single exposure.

STOT RE: Specific target organ toxicity — repeated exposure.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.