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

2. HAZARD IDENTIFICATION

Globally Harmonized System, EU (GHS)
Pictogram:

Signal Word: Warning
Hazard Statement:
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
Precautionary Statements (Response):
P391 Collect spillage.
The product contains: Alpha-Cypermethrin
May cause paraesthesia.
Classification of the substance or mixture
According to Regulation (EC) No 1272/2008 [CLP]
Aquatic Acute 1
Aquatic Chronic 1
According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
May cause paraesthesia.
For the classifications not written out in full in this section the full text can be found in section 16.
Other hazards
According to Regulation (EC) No 1272/2008 [CLP]
See section 12 - Results of PBT and vPvB assessment.
If applicable information is provided in this section on other hazards which do not result in Classification but which may contribute to the overall hazards of the substance or mixture.

3. COMPOSITION INFORMATION ON INGREDIENTS:

CAS NO	HAZARDOUS COMPONENT	CONCENTRATION	GHS CLASSIFICATION
67375-30-8	Alpha-Cypermethrin	5 %	Acute tox. 4 (Inhalation - dust) Acute tox. 3 (oral) STOT SE 3 (irr. to respiratory syst.) STOT SE 2 Aquatic Acute 1 Aquatic Chronic 1 M-factor acute: 10000 M-factor chronic: 1000 H332, H301, H400, H410, H335, H373
577-11-7	Docusate sodium	<3 %	Skin Corr./Irrit. 2 Eye Dam./Irrit. 1 H318, H315
1332-58-7	Kaolin	<90 %	Eye Dam./Irrit. 2 H319

4. FIRST AID MEASURES:

4.1 Description of first aid measures
Remove contaminated clothing.

If inhaled: Keep patient calm, remove to fresh air.
On skin contact: Wash thoroughly with soap and water.
On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open.
On ingestion: Rinse mouth and then drink plenty of water.
Most important symptoms and effects, both acute and delayed.
Symptoms: No significant reaction of the human body to the product known.
Indication of any immediate medical attention and special treatment needed.
Treatment: Symptomatic treatment (decontamination, vital functions).

5. FIRE FIGHTING MEASURES:

5.1 Extinguishing media

Suitable extinguishing media:

Dry powder, foam, water spray

5.2 Unsuitable extinguishing media for safety reasons:

Carbon dioxide

5.3 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.

5.4 Advice for fire-fighters

Special protective equipment:

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

5.5 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:

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

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

6.3 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:

7.1 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.

7.2 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. Conditions for safe storage, including any incompatibilities:Segregate from foods and animal feeds.

7.3 Further information on storage conditions:

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

7.4 Storage stability:
Storage duration: 36 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:

8.1 Control parameters
Components with workplace control parameters
1332-58-7: Kaolin
67375-30-8: Alpha-Cypermethrin (ISO); racemate comprising (R)-.alpha.-cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (S)-.alpha.-cyano-3-phenoxybenzyl (1R,3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate
577-11-7: Docusate sodium

8.2 Exposure controls:
Personal protective equipment

Respiratory protection:	Respiratory protection not required.
Hand protection:	Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other
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, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

8.3 General safety and hygiene measures
The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Avoid contact with the skin, eyes and clothing.
Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES:

9.1 Information on basic physical and chemical properties

Form:	Powder, free flowing
Colour:	White
Odour:	Odourless
pH value:	Approx. 4 - 10
Melting point:	The product has not been tested.
Boiling range:	The product has not been tested.

Flash point:	Not applicable
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
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.

9.2 Other information

Bulk density: approx. 343 kg/m^3

If necessary, information on other physical and chemical parameters is indicated in this section.

10. STABILITY AND REACTIVITY:

10.1 Reactivity:	No hazardous reactions if stored and handled as prescribed/indicated.
10.2 Chemical stability:	The product is stable if stored and handled as prescribed/indicated.
10.3 Possibility of hazardous reactions:	No hazardous reactions if stored and handled as prescribed/indicated.
10.4 Conditions to avoid:	See MSDS section 7 - Handling and storage.
10.5 Incompatible materials	
Substances to avoid:	Strong bases, strong acids, strong oxidizing agents.
10.6 Hazardous decomposition products:	No hazardous decomposition products if stored and handled as prescribed/indicated.

11. TOXICOLOGICAL INFORMATION:

11.1 Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data:

LD50 rat (oral):	> 3,300 mg/kg
LD50 rat (dermal):	> 2,000 mg/kg
Information on:	Alpha-Cypermethrin
Experimental/calculated data:	
LC50 rat (by inhalation):	2.29 mg/l 4 h (OECD Guideline 403) Tested as dust aerosol.

11.2 Irritation

Assessment of irritating effects:	Not irritating to the eyes. Not irritating to the skin.
Experimental/calculated data:	Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)
Serious eye damage/irritation rabbit:	Non-irritant (OECD Guideline 405)

11.3 Respiratory/Skin sensitization

Assessment of sensitization:	There is no evidence of a skin-sensitizing potential. The product has not been tested. The statement has been derived from products of a similar structure or composition.

11.4 Germ cell mutagenicity

Assessment of mutagenicity:	The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

11.5 Carcinogenicity

Assessment of carcinogenicity:	The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

11.6 Reproductive toxicity

Assessment of reproduction toxicity:	The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

11.7 Developmental toxicity

Assessment of teratogenicity:	The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals**.**

11.8 Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Alpha-Cypermethrin
Assessment of repeated dose toxicity:
Repeated oral exposure may affect certain organs. Damages the peripheral nerve system.
11.9 Other relevant toxicity information
Misuse can be harmful to health.
May cause paraesthesia.

12. ECOLOGICAL INFORMATION:

12.1 Ecotoxicity
Assessment of aquatic toxicity:
Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on:	alpha-Cypermethrin
Toxicity to fish:	LC50 (96 h) 0.0028 mg/l, Oncorhynchus mykiss (OECD 203; ISO 7346; 84/449/EEC, C.1)

Information on:	Alpha-Cypermethrin
Aquatic invertebrates:	EC50 (48 h) 0.0003 mg/l, Daphnia magna (OECD Guideline 202, part 1)

Information on:	Alpha-Cypermethrin
Aquatic plants:	EC50 (72 h) > 1 mg/l (growth rate), Scenedesmus subspicatus (OECD Guideline 201) EC50 (7 d) > 0.00139 mg/l (growth rate), Lemna gibba

Information on:	Alpha-Cypermethrin
Chronic toxicity to fish:	No observed effect concentration (34 d) 0,03 µg/l, Pimephales promelas

Information on: Alpha-Cypermethrin
Chronic toxicity to aquatic invertebrates:
No observed effect concentration (21 d), 0,03 µg/l, Daphnia magna

12.2 Persistence and degradability
Assessment biodegradation and elimination (H2O):
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Alpha-Cypermethrin
Assessment biodegradation and elimination (H2O):
Not readily biodegradable (by OECD criteria).

12.3 Bio-accumulative potential
Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Alpha-Cypermethrin
Bio-concentration factor: 910, Cyprinus carpio
Accumulation in organisms is not to be expected.

13. DISPOSAL CONSIDERATIONS:

13.1 Waste treatment methods
Must be sent to a suitable incineration plant, observing local regulations.
13.2 Contaminated packaging:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. TRANSPORT INFORMATION:

Land transport
ADR:

Class	9
Packaging group	III
UN-number	3077
Hazard label:	9, EHSM
Designation of goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains: Alpha-Cypermethrin)

RID:

Class	9
Packaging group	III
UN-number	3077
Hazard label:	9, EHSM
Designation of goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Alpha-Cypermethrin)

Inland waterway transport
ADNR:

Class	9
Packaging group	III
UN-number	3077
Hazard label:	9, EHSM
Designation of goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Alpha-Cypermethrin)

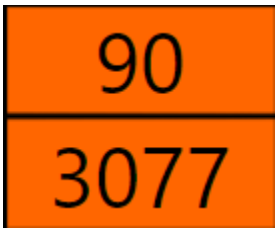
Sea transport
IMDG/GGVSee:

Class	9
Packaging group	III
UN-number	3077
Hazard label:	9, EHSM
Marine pollutant	YES

Exact technical name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Alpha-Cypermethrin)
Air transport ICAO/IATA:	
Class	9
Packaging group	III
UN-number	3077
Hazard label:	9, EHSM
Exact technical name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Alpha-Cypermethrin)

Label :

Hazardous Identification Number :



15. REGULATORY INFORMATION:

Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations
Safety, health and environmental regulations/legislation specific for the substance or mixture.
For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

16. OTHER INFORMATION:

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.
Full text of the classifications, including the indication of danger, the hazard symbols, the **R phrases, and the hazard statements, if mentioned in section 2 or 3:**

T	Toxic.
N	Dangerous for the environment.
Xi	Irritant.

20	Harmful by inhalation.
25	Toxic if swallowed.
37/38	Irritating to respiratory system and skin.
48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
38	Irritating to skin.
41	Risk of serious damage to eyes.
Aquatic	Acute Hazardous to the aquatic environment - acute
Aquatic	Chronic Hazardous to the aquatic environment - chronic
Acute Tox.	Acute toxicity
STOT SE	Specific target organ toxicity — single exposure
STOT RE	Specific target organ toxicity — repeated exposure
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
H332	Harmful if inhaled.
H301	Toxic if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

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.