

STARPLEX 83 CC

Material Safety Data Sheet

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

1.1 Product Name:

Nufog Dual Action

1.2 Use: Public Health / Farming / Industrial / Pest Control

1.3 Company Name:

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

1.4 Emergency Contact Numbers:

Tygerberg Poison Centre: +2721 931 6129
Griffon Poison Information Centre - 082 446 8946

2. HAZARD IDENTIFICATION

2.1 GHS Label elements, including precautionary statements

Flammable Aerosols Category 2



Signal Word: Danger

Symbol(s):

N: Dangerous for the environment.

R-phrases(s):

R10: Flammable.
R36/37/38: Irritating to eyes, respiratory system and skin.
R43: May cause sensitization by skin contact.
R23: Toxic by inhalation.
R24/25: Toxic in contact with skin and if swallowed.
R25: Toxic if swallowed.
R26: Very toxic by inhalation.
R28: Very toxic if swallowed.
R43: May cause sensitization by skin contact,
R50: Very toxic to aquatic organisms.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s):

S1/2: Keep locked up and out of the reach of children.

S24: Avoid contact with skin.

Hazard Statements

H304 - May be fatal if swallowed and enters airways

H318 - Causes serious eye damage

H331 - Toxic if inhaled

EXTREMELY FLAMMABLE AEROSOL

3. COMPOSITION INFORMATION ON INGREDIENTS:

3.1 Mixtures

Chemical nature: Pyrethroid, Carbamate, Organophosphate

Hazardous components

CAS NO	HAZARDOUS COMPONENT	CONCENTRATION	GHS CLASSIFICATION
114-26-1	Propoxur	1 %	<p>H301: Toxic if swallowed [Danger Acute toxicity, oral]</p> <p>H400: Very toxic to aquatic life [Warning Hazardous to the aquatic environment, acute hazard]</p> <p>H410: Very toxic to aquatic life with long lasting effects [Warning Hazardous to the aquatic environment, long-term hazard]</p> <p>Precautionary Statement Codes</p> <p>P264, P270, P273, P301+P310, P321, P330, P391, P405, and P501</p>
68359-37-5	Cyfluthrin	0.025 %	<p>H300: Fatal if swallowed [Danger Acute toxicity, oral]</p> <p>H331: Toxic if inhaled [Danger Acute toxicity, inhalation]</p> <p>H400: Very toxic to aquatic life [Warning Hazardous to the aquatic environment, acute hazard]</p> <p>H410: Very toxic to aquatic life with long lasting effects [Warning</p>

			<p>Hazardous to the aquatic environment, long-term hazard]</p> <p>Precautionary Statement Codes</p> <p>P261, P264, P270, P271, P273, P301+P310, P304+P340, P311, P321, P330, P391, P403+P233, P405, and P50</p>
62-73-7	Dichlorvos	0.5 %	<p>H301: Toxic if swallowed [Danger Acute toxicity, oral]</p> <p>H311: Toxic in contact with skin [Danger Acute toxicity, dermal]</p> <p>H317: May cause an allergic skin reaction [Warning Sensitization, Skin]</p> <p>H330: Fatal if inhaled [Danger Acute toxicity, inhalation]</p> <p>H400: Very toxic to aquatic life [Warning Hazardous to the aquatic environment, acute hazard]</p> <p>Precautionary Statement Codes</p> <p>P260, P261, P264, P270, P271, P272, P273, P280, P284, P301+P310, P302+P352, P304+P340, P310, P312, P320, P321, P322, P330, P333+P313, P361, P363, P391, P403+P233, P405, and P501</p>

4. FIRST AID MEASURES:

Skin contact: Wash affected area with copious amount of soap and water.

Eye contact: Flush out eyes with water and seek medical attention.

Ingestion: Call a doctor immediately.

Inhalation: IMMEDIATELY remove to fresh air. If not breathing give artificial respiration and call a doctor immediately. Do not give mouth-to-mouth without a mouthpiece. If breathing of victim is difficult administer oxygen for a maximum period of one hour.

5. FIRE FIGHTING MEASURES:

- Small fires:** Dry chemical, CO₂, Halon.
Large fires: Water spray, fog or standard foam is recommended.

Move container from fire area if you can do it without risk. Cool containers that are exposed to flames with water from the side until well after the fire is out. Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Positive pressure self-contained breathing apparatus (SCBA) and structural fire fighter's protective clothing will provide limited protection.

6. ACCIDENTAL RELEASE MEASURES:

Breathing apparatus for fire only. Contain (avoid spillage from entering drains or water courses).

- Precautions:** Restrict access to area. Provide adequate protective equipment and ventilation. Remove sources of heat and flame. Notify occupational and environmental authorities.

- Spill or leak:** Stop leak if you can do it without risk.

7. HANDLING AND STORAGE:

Handling:

Fire separation of at least 5 m or 4 hr fire resistant wall from the following classes is recommended: Flammable gases, flammable liquids, flammable solids, dangerous when wet, poison, corrosives.

Storage: In the same room or space is prohibited with the following classes: Explosives, spontaneously combustibles, oxidizing agents, organic peroxides, radioactive. The rooms or spaces should be at least 10 m apart.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION:

Exposure limits: No exposure limits established.

Controls: The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Use a non-sparking, grounded ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside. Supply sufficient replacement air to make up for air removed. Have a safety shower/eye wash fountain readily available in the immediate work area.

Personal protection during manufacture:

If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection equipment, including chemical safety goggles & face shield, boots, imperious gloves, coveralls & respiratory protection. Have appropriate equipment available for use in **emergencies**.

Protective clothing during normal use: None required.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Form:	Liquefied gas
Appearance:	Aerosol can
Colour:	Yellow to brown
Odour:	Characteristic odour
Flash point:	> 45 °C
Vapour pressure:	Not established
Vapour Density:	Not available
Boiling point:	Not established
pH:	Not established
Flash Point:	Not established
Flammability:	Highly flammable.

Do not spray uninterrupted for more than 10 seconds in confined spaces. Keep away from naked flames.

Auto ignition temperature:	Not established
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10. STABILITY AND REACTIVITY:

Chemical stability:	Stable under normal conditions of use.
Hazardous polymerisation:	None
Conditions to avoid:	Highly flammable. Do not puncture or incinerate can. Store at normal room temperature. Do not spray uninterrupted for more than 10 seconds in confined spaces. Keep away from naked flames. Ensure good ventilation.
Incompatible materials:	Not available
Hazardous decomposition products:	In the event of fire, gaseous oxides of carbon and nitrogen may be released

11. TOXICOLOGICAL INFORMATION:

11.1 Toxicological Information:

Cyfluthrin technical

Acute Oral:	c. 900 mg/kg
Acute Dermal:	5000 mg/kg
Acute Inhalation:	0.5 mg/l air

Dichlorvos technical:

Acute Oral:	c. 50 mg/kg
Acute Dermal:	c. 90 mg/kg
Acute Inhalation:	340 mg/l air

Propoxur technical:

Acute Oral:	c. 50 mg/kg
Acute Dermal:	5000 mg/kg
Acute Inhalation:	0.5 mg/l air

Formulated product:

LD50, oral (calculated): 5523,48 mg/kg

LD50, dermal (calculated): 83 056,48 mg/kg

LD50, inhalation (calculated): 55 196,47 mg/kg

12. ECOLOGICAL INFORMATION:

No ecological problems are expected when the product is handled and used with due care.

13. DISPOSAL CONSIDERATIONS:

Disposal method product: Do not puncture or incinerate the can.

Disposal method packaging: Disposal in accordance with local legal provisions.

14. TRANSPORT INFORMATION :

UN Number: 1950
Class: 2.1
Packing group: III
Proper Shipping Name: Aerosols, Flammable
IMDG: 2013
Ems: 2-13
MFAG: 620

Subsidiary risk: -

Declaration for land shipment: 1950 AEROSOLS, flammable

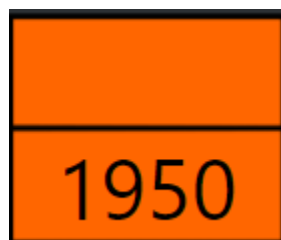
Declaration for sea shipment: 1950 AEROSOLS, flammable

Declaration for shipment by air: 1950 AEROSOLS, flammable

Labels:



Hazard Identification Number:



15. REGULATORY INFORMATION:

Classification and labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.

Classification: Labelling according to EC Directives,

Hazardous components which must be listed on the label: Cyfluthrin, propoxur, dichlorvos.

Symbol(s):

N: Dangerous for the environment.

R-phrases(s):

R10: Flammable.

R36/37/38: Irritating to eyes, respiratory system and skin.

R43: May cause sensitization by skin contact.

S-phrase(s):

S1/2: Keep locked up and out of the reach of children.

S24: Avoid contact with skin.

Exceptional labelling: To avoid risks to man and the environment, comply with the instructions for use.

WHO Classification: II (Moderately hazardous).

16. OTHER INFORMATION:

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.