STARPLEX 83 CC

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Revision number 4
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AIRCRAFT AEROSOL

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Aircraft Aerosol

Use: Insecticide

Company Name:

Starplex 83 CC
Reg. No. 2004/015647/23
P.O. Box 14374
BREDELL 1623
SOUTH AFRICA
TEL: (011) 979-4246/7

Emergency Contact Numbers:
Griffon Poison Information Centre: 082 446 8946
Poison Information Centre: 0861 555 777

2. HAZARD IDENTIFICATION

SANS 10234:2008, Regulation EC 1272/2008 [EU-GHS/CLP]		
Hazard classes	**Hazard categories**	**Hazard codes**
Aerosols	Category 1	H222
	Category 1	H229
Aspiration Toxicity	Category 1	H304
Skin Irritant	Category 2	H315
Skin Sensitiser	Category 1	H317
Aquatic Chronic	Category 1	H410

Hazard pictogram:



Signal word: Danger

Hazard statements:
H222: Extremely flammable aerosol.
H229: Pressurized container: may burst if heated.
H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
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.
P211: Do not spray on an open flame or other ignition source.
P251: Do not pierce or burn, even after use.
P264: Wash hands and face thoroughly after handling.
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.
P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
P331: Do NOT induce vomiting.
P333+P313: If skin irritation or rash occurs: Get medical advice.
P362+P364: Take off contaminated clothing and wash it before reuse.
P391: Collect spillage.
P405: Store locked up.
P410+P403 Protect from sunlight. Store in a well-ventilated place.
P501: Dispose of content/container to suitable landfill in accordance with local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

Substance / Mixture: Mixture

CAS NO	CHEMICAL NAME	CONCENTRATION	GHS CLASSIFICATION
52645-53-1	Permethrin	2 %	Acute Toxicity 4 (H302) Skin Sensitizer 1 (H317) Acute Toxicity 4 (H332) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Mixture	Blend of Ethanol/Isopropanol	> 10%	Flammable Liquid 2 (H225) Aspiration Toxicity 1 (H304) Skin Irritant 2 (H315) Specific Target Organ Toxicity Single Exposure 3 (H336) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Mixture	Fluorocarbon 134a	> 80%	Flammable gas (H220) Pressurized gas (Liquid) (H280)

4. FIRST AID MEASURES:

General advice:
Avoid contact with the skin, eyes and clothing. Remove contaminated clothing.
If difficulties occur:
Obtain medical attention. Show container, label and/or safety data sheet to physician.
If inhaled:
Keep patient calm, remove to fresh air, and seek medical attention.
On skin contact:
Wash with plenty of water and non-abrasive soap. If skin irritation or rash occurs: Get medical advice.
On contact with eyes:
Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
On ingestion:
Rinse mouth and then drink plenty of water. Immediately call a POISON CENTER. Do NOT induce vomiting.

Note to physician:
Treatment: Treat according to symptoms (decontamination, vital functions). The product contains a pyrethroid and must not be confused with organophosphorous compounds.

5. FIRE FIGHTING MEASURES:

Extinguishing media
Suitable extinguishing media:
Water spray, water fog, carbon dioxide, foam

Specific hazards:
Special protective equipment:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:
In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. 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.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions:
Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately.

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

Methods for cleaning up or taking up:
For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).
For large amounts: Dike spillage. Pump off product.

Cleaning operations should be carried out only while wearing breathing apparatus. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

7. HANDLING AND STORAGE:

Handling:
No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:
The product is combustible. Vapors may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage:
Segregate from foods and animal feeds.
Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight.

Storage stability:
Storage duration: 24 Months
Protect from temperatures above: 40 °C
Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION:

Personal protective equipment
Respiratory protection:
Breathing protection if gases/vapours are formed. Wear respiratory protection if ventilation is inadequate. Gas filter EN141 Type A for gases/vapours of organic compounds (boiling point >65 °C).

Hand protection:
Suitable chemical resistant safety gloves also with prolonged, direct contact
E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other.
Eye protection:
Tightly fitting safety goggles (splash goggles)
Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit
General safety and hygiene measures:
Take off immediately all contaminated clothing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Form:	Liquefied gas
Colour:	Yellow to brown
Odour:	Odourless
Specific gravity:	1.29 g/mℓ
Flash point:	100 °C
Melting point:	34-35 °C
Boiling point:	>100 °C
Solubility in water:	Insoluble in water

10. STABILITY AND REACTIVITY:

Conditions to avoid: Extremes of temperature and direct sunlight. Non-hazardous reactions when stored and handled according to prescribed instructions.
Chemical Stability: Stable under normal storage and handling conditions.
Possibility of Hazardous Reactions: No potential for hazardous reactions known.
Conditions to Avoid: Excessive heat, sources of ignition. Open flame.
Incompatible Materials: Strong acids and bases
Hazardous Decomposition Products: Thermal decomposition may produce toxic carbon and nitrogen oxides. May release flammable gases in a fire.

11. TOXICOLOGICAL INFORMATION:

ACUTE TOXICITY
Calculated according to GHS:
Oral LD_{50}: > 5000 mg/kg (rat)
Dermal LD_{50}: > 5000 mg/kg (rabbit)
Inhalation LC_{50}: > 20 mg/ℓ/4 hr (rat)

Skin irritation / corrosion: Causes skin irritation.
Eye damage / irritation: Not calculated.
Skin sensitization: May cause an allergic skin reaction.
Respiratory sensitization: Not calculated.
Germ cell mutagenicity: Not calculated.
Carcinogenicity: Not calculated.
Reproductive toxicity: Not calculated.
Specific target organ toxicity – single exposure: Not calculated.
Specific target organ toxicity – repeat exposure: Not calculated.
Aspiration toxicity: May be fatal if swallowed and enters airways.
Chronic effects: Not available.

POTENTIAL ADVERSE EFFECTS:
Other information: None known.

12. ECOLOGICAL INFORMATION:

ECOTOXICITY DATA:
For active ingredient - Pyrethrin

Fish

LC_{50} (96 h)	Rainbow trout	0.009 mg/ℓ
	Bluegill sunfish	1.8 µg/ℓ

Daphnia

LC_{50} (48 h)		0.6 µg/ℓ

Birds

LD_{50}	Mallard duck	> 9800 mg/kg

Persistence and degradability
Degradation in soil and water are rapid.

Additional information
Other ecotoxicological advice:
Do not discharge product into the environment.

13. DISPOSAL CONSIDERATIONS:

Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product. Destroy the empty container by perforating and flattening

and dispose of as toxic waste in accordance with local/international regulations. DO NOT re-use for any other purpose.

14. TRANSPORT INFORMATION :

UN NUMBER: 1950
Road Transport ADR / ORD:
Class: 2
Packaging group: N/A
UN Proper Shipping Name: Aerosols

Maritime Transport IMDG / IMO:
Class: 2
Packaging group: N/A
UN Proper Shipping Name: Aerosols
Marine pollutant: Yes

Air Transport IATA / ICAO:
Class: 2
Packaging group: N/A
UN Proper Shipping Name: Aerosols

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 2021 Regulations for Hazardous Chemical Substances.
Relevant information regarding the 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 70 g (equal to 60 mℓ) aluminium aerosol cans and labelled according to South African regulations and guidelines.
Other hazard statements, abbreviations and explanations:
H220: Extremely flammable gas.
H225: Highly flammable liquid and vapour.
H280: Contains gas under pressure; may explode if heated.
H302: Harmful if swallowed.

H332: Harmful if inhaled.
H336: May cause drowsiness or dizziness.

ADR: 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.
LD_{50} 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 are 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 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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