

STARPLEX 83 CC

Material Safety Data Sheet

Revised on: 01 November 2019 Revision number 2

1. Substance/preparation and company identification:

LARVAKIL SC

Use: Pest control

Company:

Starplex 83 CC

Reg. No. 2004/01564/23

P.O. Box 14374

BREDELL 1623

SOUTH AFRICA

TEL: (011) 979-4246/7

Emergency contact numbers

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

2. Composition/information on ingredients:

Mixtures

Chemical nature: Insecticides

Mixture

Hazardous components

	CAS-No EC-No	Classification	Classification	Concentration
Chemical name	Registration	(67/548/EEC)	(Regulation (EC) no	(%)
	number		1272/2008)	
	35367-38-5	N;R50/53	Aquatic Acute 1;	48
Diflubenzuron	252-529-3		H400	
			Aquatic Chronic 1;	
			H410	

Ethanodial	107-21-1	Xn; R22	Actute Tox. 4; H302	< 10
Ethanediol	203-473-3			
Sodium	1322-93-6	Xn; R22	Acute Tox. 4; H302	< 10
diisopropylnaphthalene	215-343-3	Xi; R36/37	Eye Irritant. 2; H319	
Sulphonate			STOT SE 3; H335	

For the full text of the R-phrases mentioned in this section, refer to section 16.

For the full text of the H-statements mentioned in this section, refer to section 16.

3. Hazard Identification:

Classification of the substance or mixture

Classification (67/548/EEC, 1999/45/EC)

R50/53: Very toxic to aquatic organisms, may cause long-term adverse Dangerous for the environment:

effects in the aquatic environment

Label elements

Labelling (REGULATION (EC) NO 1272/2008)

Hazard pictograms Dangerous for the environment

Very toxic to aquatic organisms, may cause long-term adverse effects R-phrase(s): R50/53

in the aquatic environment

S57 Use appropriate container to avoid environmental contamination. S-phrase(s)

> This material and its container must be disposed of as hazardous S60

waste.

Other hazards

No information available.

4. First-aid measures:

Description of first aid measures

If breathed in, move person into fresh air. Give oxygen or artificial respiration

if needed. Consult a physician after significant exposure.

In case of skin contact: If on clothes, remove clothes. Wash off with warm water and soap.

If skin irritation occurs, seek medical advice/attention.

Wash contaminated clothing before re-use. Destroy contaminated shoes.

If swallowed: Do NOT induce vomiting

Rinse mouth with water
Obtain medical attention

In case of eye contact: Rinse thoroughly with plenty of water, also under the eyelids.

If symptoms persist, call a physician

Most important symptoms and effects, both acute and delayed

Symptoms The absorption of this product into the body may lead to the formation of

methaemoglobine that, in sufficient concentration, causes cyanosis

Risks Methaemoglobinemia

Indication of any immediate medical attention and special treatment needed

Treatment: The first aid procedure should be established in consultation with the doctor

responsible for industrial medicine.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO2)

Dry chemical

Alcohol resistant Foam

Water Mist

Unsuitable Extinguishing Media: Water spray jet

Special hazards arising from the substance or mixture

Specific hazards during fire

fighting:

No information available

Advice for firefighters

Special protective equipment In the event of fire, wear self-contained breathing apparatus

for fire firefighters: Full protective flameproof clothing

Complete suit protecting against chemicals

Further information:

Use water spray to cool unopened containers

Standard procedure for chemical fires

Prevent fire extinguishing water from contaminating surface water or the ground

water system

6. Accidental release measures

Personal precautions, protective equipment and emergency

procedures

Personal precautions: Evacuate personnel to safe areas

Wear suitable protective equipment

Avoid contact with skin and

eyes

Environmental precautions

Environmental precautions:

Do not allow uncontrolled discharge of product into the

environment

Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

Dam up

Contain spillage, soak up with non-combustible absorbent material.

(e.g. sand, earth, diatomaceous earth, vermiculite)

Methods for cleaning up: and transfer to a container for disposal, according to local/national

regulations (see section 13)

Large spills should be collected mechanically (Remove by pumping) for

disposal.

Keep in suitable, closed containers for disposal.

Reference to other sections

Keep in properly labelled containers. Dispose of rinse water as waste water

7. Handling and storage

Precautions for safe handling

Advice on safe handling: Do not handle until all safety precautions have been read and understood.

Handle and open container with care. Avoid contact with skin, eyes

and clothing.

Use only with adequate ventilation/personal protection.

Smoking, eating and drinking should be prohibited in the application area.

Wash thoroughly after handling. Keep container tightly closed.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Keep container tightly closed in a dry and well-ventilated

place.

Keep only in the original

container.

Other data: Stable at normal ambient temperature and pressure

Specific end uses

Specific use(s): Insecticides

8. Exposure controls and personal protection

Control parameters

Components	CAS- NO Value	Value	Control	Update	Basis
		value	parameters		
ethane-1,2-diol	107- 21-1	TWA	20PPM	6/16/2000	2000-39-EC
-			52MG/M3		
		STEL	40PPM	6/16/2000	2000-39-3EC
_			104MG/M3		
		CEIL	20PPM	6/7/2007	BE OEL
			52MG/M3		

Exposure controls

Engineering measures

Use mechanical ventilation for general area control.

Exhaust air must be cleaned using approved equipment before returning it to the work place.

Ensure that eyewash stations and safety showers are closed to the workstation location.

iocation.

Personal protective equipment

Respiratory Protection:

In the case of vapour formation use a respirator with an approved filter.

Respirator with a vapour filter (EN 141)

Hand protection: Chemical resistant protective gloves

Eye protection: Safety glasses with side shields or safety goggles

Skin and body protection: Long sleeved clothing. Remove and wash contaminated clothing before re-use.

Discard contaminated shoes. To protect against splashes from pouring:

Rubber or plastic boots. Rubber or plastic apron.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes and clothing. Do not inhale aerosol. Ensure adequate ventilation, especially in confined areas. When using do not eat, drink or smoke. Wash thoroughly after handling. Keep working clothes separately. Remove and wash contaminated clothing before re-use. Contaminated work clothing should not be allowed out of

the workplace.

Environmental exposure

controls

General advice: Do not allow uncontrolled discharge of product into the environment.

Do not flush into surface water or sanitary sewer

system.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance: Liquid Colour: Tan Odour: None

Odour Threshold: No information available

Flash Point: Not determined

Ignition Temperature: No information available No information available Lower Explosion Limit: Upper Explosion Limit: No information available Flammability (solid, gas): No information available No information available Auto ignition Temperature: 6-8 Conc.: 1% pH: Note: no data available Boiling point/boiling range: Vapour pressure: No information available Density: 1.2 – 1.3g/cm³ Water Solubility: Dispersible

Partition Coefficient: No information available

N-Octanol/water

Solubility in other solvents:

Viscosity, Dynamic:

Relative Vapour Density:

No information available

Evaporation Rate:

No information available

10. Stability and reactivity

Reactivity: No dangerous reaction known under conditions of normal use

Chemical stability: Stable under normal conditions

Possibility of hazardous

reactions:

Products:

Hazardous reactions: Hazardous polymerisation does not occur.

Conditions to avoid: Extremes of temperature and direct sunlight

Incompatible materials:

Materials to avoid:

Strong acids and strong bases,

Strong oxidizing agents.

Hazardous decomposition products:

Hazardous decomposition Carbon monoxide

Carbon dioxide (CO²)
Nitrogen oxides (NOx)

Hydrogen halides

11. Toxicological information

Acute toxicity:

Acute oral toxicity: LD50: >5.000 mg/kg Species: rat

Acute oral toxicity: Diflubenzuron: LD50: 4.640 mg/kg Species: rat

Ethanediol: LD50: 4.700 mg/kg Species: rat

Sodium: LD50: <2.000mg/kg Species: rat

diisopropylnaphthalenesulphonate

Acute inhalation toxicity: LC50:>2,88 mg/l Species: rat Exposure time: 4 h

Acute inhalation toxicity:

Diflubenzuron: LC50:>2,49 mg/l Species: rat Exposure time: 4 h

Acute dermal toxicity: LC50:>2,000 mg/kg Species: rat

Acute dermal toxicity: Diflubenzuron: LD50: >10.000 mg/kg Species: rat

Ethanediol: LD50: >10.670

mg/kg

Skin corrosion/irritation:

Skin irritation: Species: rabbit Result: No skin irritation
Skin irritation Diflubenzuron: Species: rabbit Result: No skin irritation

Method: OECD Test Guideline

404

Exposure time: 4 h

species: rabbit

Serious eye damage/eye irritation:

Eye irritation:

12. Ecological Information

Toxicity

M-Factor N-[[(4- 100

Chlorophenyl)amino]carbonyl]

-2,6 - difluorobenzamide

Toxicity to fish (Chronic toxicity)

Diflubenzuron: NOEC: 0,10 mg/l Species: Cyprindon sp. (minnow)

Toxicity to daphnia and other aquatic invertebrates. (Chronic toxicity)

Diflubenzuron: NOEC: <6mg/l Species: Daphnia magna (water flea)

Persistence and degradability

Biodegradability:

Diflubenzuron

Bio-accumulative potential

Bioaccumulation

Diflubenzuron

Mobility in soil

Mobility:

Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bio-accumulating or toxic (PBT).

Other adverse effects

13. Disposal considerations

Waste treatment methods

Product:

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Dispose of as hazardous waste in compliance with local

and national regulations.

14. Transport information

ADR

UN number:	3082
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s
	(Diflubenzuron) (Diflubenzuron)
Transport hazard class(es):	9
Packing group:	III
Classification Code:	M6
Hazard identification No:	90
Labels:	9
Tunnel restriction code:	(E)
Environmentally hazardous:	Yes
IATA	
UN Number:	3082
Description of the goods:	Environmentally hazardous substance, liquid, n.o.s
	(Diflubenzuron)
Class:	9
Packing group:	111
Labels:	9
Packing instruction (cargo	914
aircraft):	
Environmental hazardous: Packing instruction (passenger aircraft):	Yes 914
Packing instruction (passenger aircraft):	Y914
IMDG	
UN number:	3082
Description of the goods:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Diflubenzuron)

 Class:
 9

 Packing group:
 111

 Labels:
 9

 EmS Number 1:
 F-A

 EmS Number 2:
 S-F

 Marine pollutant:
 Yes

Diflubenzuron

RID

UN Number: 3082

Description of the goods: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Diflubenzuron)

Transport hazard class(es):

Packing group:

Classification code:

Hazard identification No:

Labels:

9

Environmentally hazardous:

yes

15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

Safety, health and environmental regulations/legislation specific for the substance or mixture

Candidate list of substances of Very High
This product does not contain substances of very high concern

Concern for Authorization: (Regulation (EC) No 1907/2006 (REACH), Article 57)

Major Accidents Hazard Legislation: 96/82/EC Update: 2003

Legislation: Dangerous for the environment

9a

Quantity 1: 100t Quantity 2: 100t Water contaminating class:

(Germany)

WGK 3 Highly water endangering

Notification status

US. Not On TSCA TSCA: Inventory

DSL:

This product contains the following components that are not on the

Canadian DSL nor NDSL lists.

AICS: Not in compliance with the inventory
NZLoC: Not in compliance with the inventory
ENCS: Not in compliance with the inventory
KECI: Not in compliance with the inventory
PICCS: Not in compliance with the inventory
IECSC: Not in compliance with the inventory

CH INV: The formulation contains substance listed on the Swiss Inventory

Chemical Safety Assessment

16. Other information

Full text R-Phrases referred to under Sections 2 and 3:

R22: Harmful is swallowed

R36/37: Irritating to eyes and respiratory system

R50/53: Very toxic to aquatic organism, may cause long term adverse effects in the

aquatic environment

Full text of H-Statements referred to under Sections 2 and 3:

H302: Harmful if swallowed

H319:	Cause serious eye irritation
H335:	May cause respiratory irritation
H400:	Very toxic aquatic life
H410:	Very toxic aquatic life with long lasting effects

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 data does not describe the product 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 and adhered to.

