

## **SAFETY DATA SHEET**

Prepared on Commission Regulation (EU) no. 453/2010

1. Identification of the substance/mixture and of the company/undertaking								
Product/substance name	Lance	Lancer 100 SL						
		<b>Publish Date:</b> 23/05/2022						
Product/substance name	CAS Number	<b>EINECS Number</b>	Index Number					
Herbicide	57754-85-5	260-929-4	-					
	Future Farm & Forest Services & Supplies (Pty) Ltd							
Supplier	P.O. BOX 98165							
	SLOANE PARK							
	2152							
	EMERGENCY CONTACT Tel: (+27) 11 463 5842							
	Future Farm & Forest Services & Supplies (Pty) Ltd							
	P.O. BOX 98165							
Regd. Office:	SLOANE PARK							
	2152							
	EMERGENCY CONTAC	27) 11 463 5842						
Emergency telephone	Transport accident:	08	6 100 0366					
number	Treatment for poison	ing cases: 08	2 446 8946					

# 2. Hazards identification

## Classification of the substance or mixture

Acute aquatic toxicity Category 1: (H400) Chronic aquatic toxicity Category 1: (H410)

## **Label Elements**

**Hazard pictograms** 



Signal word WARNING

**Hazard statements** H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

**Precautionary statements** P273 - Avoid release to the environment. – *if this is not the* 

intended use.

P391 - Collect spillage.

P501 - Dispose of contents/container in accordance with

applicable regulations.

**Supplemental information** EUH401 - To avoid risks to human health and the environment,

comply with the instructions for use.

Other Hazards No information available

# 3. Composition/information on ingredients

## **Mixture**

Chemical Name	Weight (%)	CAS No	EC No	GHS Classification
Clopyralid monoethanolamine salt	12.5	57754-85-5	260-929-4	Aquatic Chronic 1 (H410)

# 4. First aid measures

## First aid measures

**General advice** In case of accident or unwellness, seek medical advice immediately

(show directions for use or safety data sheet if possible).

First aider: Pay attention to self-protection!

If potential for exposure exists refer to Section 8 for specific personal

protective equipment.

**Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer

artificial respiration. Immediate medical attention is required.

**Skin Contact** Immediately remove contaminated clothing and flush body and

clothes with large amounts of soap and water. Rinse skin immediately with plenty of water for 15-20 minutes. Wash contaminated clothing

before re-use. Seek medical assistance if irritation persists.

**Eye contact** Immediately flush with plenty of water. After initial flushing, remove

any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Immediately consult an ophthalmologist

and show this SDS or the label or the packaging.

**Ingestion** No emergency medical treatment necessary.

### Most important symptoms and effects, both acute and delayed:

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

## Indication of any immediate medical attention and special treatment needed

Notes to physician: No specific antidote. Treatment of exposure should be directed at the

control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor or going for

treatment.

## 5. Firefighting measures

## **Extinguishing media**

#### Suitable extinguishing media:

To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam.

#### Unsuitable extinguishing media:

No data available

### Special hazards arising from the substance or mixture

### **Hazardous combustion products:**

Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Nitrogen oxides. Hydrogen chloride. Carbon monoxide. Carbon dioxide.

### **Unusual Fire and Explosion Hazards:**

This material will not burn until the water has evaporated. Residue can burn.

#### **Advice for firefighters**

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical, or foam. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.

#### Special protective equipment for firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

## 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures:

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

## **Environmental precautions:**

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

### Methods and materials for containment and cleaning up:

Contain spilled material if possible.

**Small spills:** Absorb with materials such as: Clay. Dirt. Sand. Sweep up. Collect in suitable and properly labeled containers.

**Large spills:** Contact the company for clean-up assistance. See Section 13, Disposal Considerations, for additional information.

## 7. Handling and storage

## Precautions for safe handling:

Keep out of reach of children. Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Wash thoroughly after handling. Use with adequate ventilation.

See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

#### **Conditions for safe storage:**

Store in a dry place. Store in original container. Keep container tightly closed when not in use. Do not store near food, foodstuffs, drugs or potable water supplies.

## 8. Exposure controls/personal protection

#### **Control parameters**

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

## **Exposure controls**

**Engineering controls:** Use local exhaust ventilation, or other engineering controls to maintain

airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be

necessary for some operations.

## Personal protective equipment

**Eye/face protection** Use safety glasses (with side shields). Safety glasses (with side shields) should

be consistent with EN 166 or equivalent. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. Chemical

goggles should be consistent with EN 166 or equivalent.

**Hand protection:** Use chemical resistant gloves classified under Standard EN374: Protective

gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 4 or higher (breakthrough time greater than 120 minutes according to EN 374) is

recommended. When only brief contact is expected, a glove with a

protection class of 1 or higher (breakthrough time greater than 10 minutes according to EN 374) is recommended. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited

to: Other chemicals which may be handled, physical requirements

(cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications

provided by the glove supplier.

**Other protection:** Use protective clothing chemically resistant to this material. Selection of

specific items such as face shield, boots, apron, or full body suit will depend

on the task.

**Respiratory protection:** Respiratory protection should be worn when there is a potential to

exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or were indicated by your risk assessment process. In

misty atmospheres, use an approved particulate respirator.

Use the following CE approved air-purifying respirator: Organic vapor

cartridge with a particulate pre-filter, type AP2 (meeting standard EN 14387).

### **General Hygiene Considerations**

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

## 9. Physical and chemical properties

## **Physical and Chemical Properties**

<u>Property</u> Values Methods Remarks

Appearance

Physical state : Liquid
Color : Yellow
Odor : Acidic
Odor threshold : No test data

available

**pH** : 7.55 CIPAC MT 75.1 (neat)

Melting point/freezing point (°C) : Not applicable

Boiling point/boiling range (°C) : No test data

available

Flash point (°C) : None Closed cup

**Evaporation rate** (Butyl Acetate = 1) : No test data

available

Flammability (solid, gas) : Not applicable to

liquids

Upper/lower flammability or<br/>explosive limits:No test data<br/>availableVapor pressure (kPa):No test data<br/>available

available
Not applicable

Vapor density : Not applicable Relative density (water = 1) : 1.06 at 20 °C

**Relative density** (water = 1) : 1.06 at 20 °C Digital Density Meter (Oscillating Coil)

Solubility(ies) (mg/l) : Soluble

Partition Coefficient (n- : No data available

octanol/water) Log Pow:

Auto-ignition temperature (°C) : None EC Method A15 below 400 °C

Decomposition temperature (°C) : No test data

available

**Dynamic viscosity** (mPa.s at 20 °C) 1.76

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Reg. 1998/014639/07

Material Name: Lancer 100SL Issue date: 2022 Version 1 GHS SDS

**Kinematic viscosity** (mm2/s 40 °C) : No test data

available

**Explosive properties** : No EEC A14

Oxidizing properties : No

Other Information

**Bulk density** (g/ml) : No data available

**Liquid Density** (g/cm $^3$ ) 1.047 Digital density meter at 20 °C **Surface tension** (mN/ml) : 71 at 20 °C

NOTE: The physical data presented above are typical values and should not be construed as a specification.

## 10. Stability and reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions** 

**Hazardous polymerization:** Polymerization will not occur.

**Conditions to avoid:** Some components of this product can decompose at elevated

temperatures. Generation of gas during decomposition can

cause pressure in closed systems.

**Incompatible Materials:** Avoid contact with: Acids. Halogenated organics. Oxidizers.

Avoid contact with metals such as: Copper. Zinc. Aluminum.

**Hazardous Decomposition Products:** Decomposition products depend upon temperature, air supply

and the presence of other materials. Decomposition products

can include and are not limited to: Hydrogen chloride.

Nitrogen oxides.

## 11. Toxicological information

### <u>Information on toxicological effects</u>

Acute toxicity		<u>Values</u>	<u>Species</u>	Remarks
Oral (LD50 mg/kg)	:	> 5 000 (Estimated)	Rat	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.
<b>Dermal</b> (LD50 mg/kg)	:	> 5 000 (Estimated)	Rabbit	No deaths occurred at this concentration.
Inhalation (LC50 mg/l/4h)	:	>1	Rat	No adverse effects are anticipated from

(Maximum single exposure to mist. Mist may cause attainable irritation of upper respiratory tract (nose and

concentration)

Skin corrosion/irritation Brief contact is essentially nonirritating to

> skin. Prolonged contact may cause slight skin irritation with local redness. Repeated contact may cause slight skin irritation with

local redness.

May cause more severe response on covered skin (under clothing, gloves). May cause more severe response if skin is abraded

(scratched or cut).

Serious eye damage/eye irritation May cause slight temporary eye irritation.

Corneal injury is unlikely. Mist may cause

eve irritation.

Respiratory/skin sensitization Did not demonstrate the potential for

> contact allergy in mice. For respiratory sensitization: No relevant data found.

**Chronic toxicity** 

Germ cell mutagenicity In vitro genetic toxicity studies were

negative. Animal genetic toxicity studies

were negative.

Carcinogenicity Did not cause cancer in laboratory animals.

Clopyralid caused birth defects in test Reproductive toxicity

> animals, but only at greatly exaggerated doses that were severely toxic to the mothers. No birth defects were observed in animals given clopyralid at doses several times greater than those expected during

normal exposure.

STOT - single exposure Evaluation of available data suggests that

this material is not an STOT-SE toxicant.

STOT - repeated exposure Based on available data, repeated exposures

are not anticipated to cause significant

adverse effects.

Aspiration hazard Based on physical properties, not likely to be

an aspiration hazard.

### 12. Ecological information

Toxicity

**Aquatic toxicity** 

**Acute toxicity** <u>Method</u> **Remarks Values Species** Material is not Fish (96-hour LC50 mg/l) > 99.9 Oncorhynchus Static test mykiss (rainbow classified as

trout)

Crustacea (48-hour EC50 mg/l) Daphnia magna : > 99.9 aquatic organisms,

(Water flea)

but are to aquatic

dangerous to

Other Algae or other aquatic : 0.0089 Myriophyllum plants

> Email: info@futurefarmforest.co.za Managing Director: R D Forsyth-Thompson Reg. 1998/014639/07 Material Name: Lancer 100SL Issue date: 2022 Version 1 GHS SDS

plants (NOEC, LC50 mg/l) spicatum

(watermilfoil)

Long-term (chronic) aquatic hazard

Chronic toxicity to fish (21 d EC50 mg/l) : 125 Oncorhynchus NOEC

mykiss (rainbow LOEC 250

trout)

**Terrestrial Toxicity** 

Apis mellifera 48 Hour Bees Oral LD50 (µg/bee) : > 2 136

Bees Contact LD50 (µg/bee) > 1 047 (bees)

Toxicity to soil-dwelling organisms

Earthworms LD50 (mg/kg) 1 000 Eisenia fetida 14 d

(earthworms)

Persistence and degradability

**Biodegradation** Fails to Material is

expected to pass OECD/EEC biodegrade very tests for slowly (in the environment). ready biodegrad

ability.

**Bioaccumulative potential** 

Partition Coefficient (n-octanol/water) : <3 Bioconcentration **Partition Coefficient** (n-octanol/water) potential is low

Log Pow

**Bioconcentration factor (BCF)** : < 100

Mobility in soil

Adsorption/Desorption Potential for Koc

> between mobility in soil is 0 and 50

very high

#### Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

#### Other adverse effects

No information available.

## 13. Disposal considerations

## Waste treatment methods

Waste from residues/unused products: Disposal should be in accordance with applicable regional,

national, and local laws and regulations.

**Contaminated packaging:** Improper disposal or reuse of this container may be dangerous

and illegal.

Other Information: Waste codes should be assigned by the user based on the

application for which the product was used.

## 14. Transport information

### **Classification for ROAD and Rail transport:**

UN number UN 3082

**Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Clopyralid)

Class 9
Packing group III

Environmental hazards Clopyralid

### Classification for SEA transport (IMO-IMDG):

UN number UN 3082

**Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Clopyralid)

Class 9
Packing group III

Environmental hazards Clopyralid

#### Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code

Consult IMO regulations before transporting ocean bulk

#### Classification for AIR transport (IATA/ICAO):

UN number UN 3082

**Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Clopyralid)

Class 9 Packing group III

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## 15. Regulatory information

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

National legislation:

- · Regulations For Hazardous Chemical Agents, 2021 as Amended by Notice R 11266 in GG 44366 of 31 March 2021 Republic Of South Africa.
- · Occupational Health and Safety Act (Act No. 85 of 1993) as amended.
- · Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act (Act No. 36 of 1947) as amended. Registration No. L6802 Department of Agriculture, Land Reform and Rural Development.

## 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Contact:

Future Farm & Forest Services & Supplies (Pty) Ltd P.O. BOX 98165 SLOANE PARK 2152

#### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous

Goods by Road)

**RID:** Règlement international concernant le transport des marchandises

dangereuses par chemin de fer (Regulations Concerning the International

Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous GoodsIATA: International Air Transport Association (IATA)ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization"

(ICAO)

**GHS:** Globally Harmonized System of Classification and Labelling of Chemicals

**EINECS:** European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

**LC50:** Lethal concentration, 50 percent

**LD50:** Lethal dose, 50 percent

This Safety Data Sheet (SDS) complies with basic South African and EU regulatory requirements for SDS on the date of publication and is intended for translation and adaptation into European National documents. This document should NOT be relied upon for compliance with the laws and

regulations of individual countries without the appropriate local translations and adaptations. It is your responsibility to ensure that any SDS taken or adapted from this system for re-distribution or use complies with all the laws and regulations which apply to any such use or re-distribution.