Safety Data Sheet

1. IDENTIFICATION OF SUBSTANCE/MIXTURE AND COMPANY

1.1 Product identifier

Soilmax Liberate

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended uses	Professional use as fertiliser

1.3 Details of the supplier of the safety data sheet

Terralift Australia, 11 North Wainwright Rd, Athol, QLD 4350, Australia
T: 1300551944 F: (02)49135419 E: admin@terralift.com.au

1.4 Emergency telephone number

Tel: 1300551944

2. HAZARDS IDENTIFICATION

2.1 Poisons schedule: Not scheduled

2.2 Hazard classification:

Not hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

2.3 Label elements

Pictogram(s)	None
Signal word:	None
Hazard statements:	None
Precautionary statements:	None
Other hazards:	None

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

No relevant hazardous ingredients

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice	Show this SDS to the doctor in attendance.
Inhalation	Remove to fresh air and seek medical aid.
Skin Contact:	Wash with water. Remove and wash contaminated clothing.
Eye Contact:	Irrigate with water thoroughly and seek medical advice.
Ingestion:	Rinse out mouth with plenty of water and seek medical aid immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	None under normal processing

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Use water, water spray, dry powder, foam or carbon dioxide if suitable for surrounding materials.
Unsuitable extinguishing media	High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:	Non-flammable. May produce fumes if heated.

5.3 Advice for fire fighters

Coordinate fire extinguishing measures to fire in surrounding area.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:	Ensure adequate ventilation. Wear personal protective equipment. Evacuate personnel to safe areas.
For emergency responders	Use personal protection recommended in section 8.

6.2 Environmental precautions

Prevent material or washings entering water courses

6.3 Methods and material for containment and cleaning up

Methods for containment	Sweep up spills carefully to minimise spread of material. If necessary use absorbent materials such as earth or sand to contain spill.
Methods for clean-up	Transfer to heavy-duty plastic bags or drums and keep safe for disposal. If material is uncontaminated reuse as recommended for product. Spilled material may cause surfaces to become slippery.

6.4 Reference to other sections

Section 8 and 13

7. HANDLING & STORAGE

7.1 Precautions for safe handling

General occupational hygiene advice	Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/storage conditions	Store in original containers, tightly closed in a secure, well ventilated area.
Packaging materials:	10 litre plastic drum.
Other advice	For quality reasons do not allow to freeze, keep away from heat sources and out of direct sunlight. Keep away from children. Shelf life 2 years.

7.3 Specific end use(s)

Specific uses	Fertiliser. Follow label instructions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

8.2 Exposure controls

Personal protective equipment

Eye / face protection:	Safety goggles.
Skin and body protection:	No special protective equipment required. Suitable work wear recommended.
Respiratory protection:	Wear approved mask where spray mist may be contacted.
Hand protection:	PVC gloves.
Work / Hygienic practices:	Wash hands before eating, drinking or smoking.
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Deep amber
Odour:	Normal
pH:	2.6-2.8
Melting point/freezing point	No data available
Boiling point/range	>100ºC
Flash point:	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas):	Non-flammable
Vapour pressure:	As water
Vapour density	Not applicable
Specific gravity:	1.25kg/l

Water solubility:	Miscible
Solubility(ies)	No data available
Partition coefficient	Not applicable
Autoignition temperature	Not applicable
Decomposition temperature	No data available
Explosive properties	Does not present explosion hazard (based on data of ingredients)
Oxidising properties:	No data available

9.2 Other information

Not applicable

10. STABILITY & REACTIVITY

10.1 Reactivity

Not reactive.

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Extremes of temperature

10.5 Incompatible materials

Strong oxidisers, alkalis

10.6 Hazardous decomposition products

Carbon dioxide, carbon monoxide and other undetermined by-products of organic combustion.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

In case of ingestion:	May cause nausea or irritation to digestive system.
In case of skin contact:	May cause mild skin irritation.
In case of inhalation:	May cause irritation of the respiratory tract.
In case of eye contact:	May cause irritation to the eyes

Symptoms related to the physical, chemical and toxicological characteristics:

No information available

Acute toxicity

No information available

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

Skin corrosion/irritation	No information available
Serious eye damage/eye irritation	No information available
Respiratory or skin sensitisation	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	No information available
Reproductive toxicity	No information available
STOT-single exposure	No information available
STOT-repeated exposure	No information available
Aspiration hazard	No information available

Absence of specific data

No test data is available for the mixture as a whole. Data on ingredient substances has been provided where relevant.

12. ECOLOGICAL INFORMATION

This product may be toxic to aquatic life. Undergoes ionic dissociation.

12.1 Toxicity

Ecotoxicity:	Do not allow product to enter the environment uncontrolled.

12.2 Persistence and degradability

Unlikely to accumulate in the environment (based on ingredient properties)

12.3 Bio accumulative potential

Low potential (based on ingredient properties)

12.4 Mobility in soil
Predominantly soluble (based on ingredient properties)
12.5 Results of PBT and vPvB assessment
No information available
12.6 Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / packaging disposal	Dispose of waste and packaging through a waste disposal contractor in accordance with local laws.

14. TRANSPORT INFORMATION

Not Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

14.1 UN-No:	Not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard class	Not regulated
14.4 Hazard group	Not regulated
14.5 Packing group	Not regulated
14.6 Marine pollutant	Not regulated
14.7 Environmental hazards	Not regulated
14.8 Special provisions for user	None

15. REGULATORY INFORMATION

15.1: General information	No data available
15.2 Poisons schedule	Not scheduled

15.3 Australian Inventory of Chemical Substances (AICS) Not listed

16. OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet
ATE: Acute Toxicity Estimate
CAS: Chemical Abstracts Service
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
OEL: Occupational Exposure Limit
STEL: Short-term exposure limit
TWA: Time Weighted Average

Classification procedure	- Calculation method - Expert judgment and weight of evidence determination
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