

MSDS – TERRA-3000[®]

Safety Data Sheet

according to Regulation (EG) NR. 1907/2007

1. Material / Preparation- and Company Labelling

1.1 Product Details

Trade Name: **TERRA-3000[®]**

1.2 Use of the Substance / preparation:

Aid

1.3 Manufacturer / Supplier:

Terra System Pty Ltd
Suite 8, 838 Old Princes Highway,
Sutherland NSW 2232
M: 0402 528 664

1.4 Emergency information: 0061 (4) 2292-8821

2. Composition / information on ingredients

2.1 Chemical Characterization

Description:

Aqueous solution of a mixture of 20% mono- and polymolecular interfacial active substances, solvents, emulgator and catalysts with a determined content of propylendiamine, CAS No. 61791-55-7 and di-methylammonia-chloride CAS No 61789-80-8 and isopropanol (IPA), CAS No 67-63-0.

2.2 Hazardous Ingredients:

Hazardous Ingredients:	Percent
Tallow propylendiamine CAS No. 61791-55-7	10 - 30%
Dimethyldioctadecylammoniumchloride CAS No. 61789-80-8	5 - 10%
Isopropanol (IPA), CAS No 67-63-0	5 - 10%
Acetic acid CAS No. 64-19-7.	5 - 10%

2.3 Additional Information:

The wording of the listed hazard note phrases refer to section 16.

3. Possible Hazards

3.1 Hazard designation

not applicable

3.2 Special hazards notes for man and environment:

This product is exempt from the specific labelling requirements because of the calculation mode of "General Classification guideline for preparations of the EU" in the latest Version R51 - 53

4. First Aid Measures

4.1 General Information:

No special measures required

4.2 After Inhalation:

Fresh Air, Consult Doctor if feeling unwell

4.3 After Skin Contact:

Immediately rinse with water.

4.4 After Eye Contact:

Rinse out with plenty of water with eyelid held wide open over minutes. Call in ophthalmologist if necessary.

4.5 After Swallow:

Consult a doctor if symptoms continuing.

5. Fire-fighting Measures

5.1 Suitable extinguishing media:

Fire-fighting measures that suit the environment
Water mist, foam, powder, carbon dioxide

5.2 Special hazards caused by the substance, its combustion products or resulting gases:

In case of fire, oxides of carbon possible

5.3 Special protective equipment:

wear full protective suit
wear self-contained breathing apparatus.
do not breath explosion- or combustion fumes

6. Accidental Release Measures

6.1 Person-related precautionary measures:

wear personal protective equipment.

6.2 Environmental protection measures:

Do not allow undiluted sewage / surface water / groundwater.

7. Handling and Storage

7.1 Handling:

Information for safe handling:

The usual precautions for handling of chemicals should be observed.

Precautions against fire and explosion protection:

No special measures required

7.2 Storage:

Requirements for storage rooms and containers:

Storage temperature: + 5°C

Common storage notes:

not required

Further information about storage conditions:

none

Storage class:

not applicable

8. Exposure Controls / Personal Protective Equipment

8.1 Additional information about composition of technical systems:

No further details

ingredients with occupational exposure to critical values:

The product does not contain any relevant quantities of materials with critical values to control parameters.

Additional information:

As basis, the current lists were used in the preparation

8.2 Personal protective equipment:

General protective and hygiene measures:

The usual precautions for handling of chemicals should be observed.

- Keep away from food, beverages and food.
- Wash hands before breaks and after work.
- Avoid contact with eyes and skin.

Respiratory protection: With good ventilation is not required.

Hand protection: not required
To avoid skin problems, reduce the wearing of gloves to the required minimum.

Eye protection: During decanting, safety glasses recommended

Body protection: Suitable protective clothing

9. Physical and Chemical Properties

- 1.1 **Form:** Liquid
1.2 **Colour:** milky white to yellow brown
1.3 **Odour:** IPA

9.2. Physical and safety-technical data

2.1 Change in physical state: solidification/melting point	<10 C
2.2 Density (at 20° C)	0,980g/cm ³
2.3 Vapour pressure (at 20° C)	like water
2.4 Viscosity (at 50° C)	like water
2.5 Solubility (at 40° C) dispersable/mixable	100%
2.6 pH-value (at 1,0g/lit H ₂ O)	6 – 7
2.7 Flash point	none
2.8 Ignition temperature	none
2.9 Explosion limits:	none

10. Stability and Reactivity

Thermal decomposition / conditions to be avoided:

No decomposition, if used intended.

Dangerous reactions:

No dangerous reactions known.

Dangerous decomposition products:

No dangerous decomposition products known.

11. Toxicological Information

11.1 Acute Toxicity:

Primary irritation:

on the skin: No irritation

on the eye: No irritation

sensitization:

No sensitization known.

Additional toxicological information:

The product is not subject to the calculation method of the General Classification Guideline for preparations of the EU in the latest version:

When handled and used properly, the product, according to our experience and the available information, caused no health effects.

12. Ecological Information

General Information:

Water hazard class 1 (Self-assessment): slightly hazardous for water (concentrate)

Do not allow water bodies or sewage system.

13. Disposal Considerations

13.1 Product:

Recommendation:

must be disposed in compliance with federal regulations.

13.2 Uncleaned packaging:

Recommendation:

Disposal according to official regulations

Recommended cleaning agent:

water, if necessary with cleansing agents.

14. Transport Information

14.1 Land transportation ADR / RID and ADR / RID (cross border):

ADR/RID and GGVS/GGVS/E class: No dangerous goods

14.2 Sea ship transportation IMDG/GGV See:

IMDG/GGV Sea-Class: -

Marine pollutant: No

14.3 Air Transportation ICAO-TI and IATA-DGR: ICAO/IATA-

Class: -

14.4 Customs tariff number: 38.24.90.15

15. Regulatory Information

15.1 Labelling according to EC directives:

The product is not subject to the calculation method of the general classification guidelines for preparations of the EU "in the latest version. Handle in accordance with good industrial hygiene and safety practice.

15.2 Specific identification letter of certain preparations:

On request safety data sheet available for professional user

15.3 National Regulations:

Water hazard class:

not applicable

Technical Instructions on Air:

Class NK

Share in % ≤ 2,5

ÖNORM M 9485:

Class	Share in %
4	≤2,5
NK	≤2,5

Water hazard class:

WGK 1 (self-assessment): slightly hazardous to water (concentrate)

16. Other Information

16.1 Compatibility of Environment

TERRA-3000[®] is completely ecologically perfect. The application by the low application rates (0.2 l / m³ concentrate), is completely safe for the environment.

Formed by the solidification of the soil material with **TERRA-3000**[®], a permanent binding of the additive and an irreversible ion exchange with the treated soil particles is creating.

A washout of the active agent does not take place.

This is achieved a soakage without further treatment, which can be taken into a surface water.

The Environment stays completely unpolluted.

16.2 Relevant R-phrases:

R38 Irritating to skin (concentrate)

This information's are based on the present state of knowledge, it do not constitute an assurance of product properties and establishes no contract legal rights.

The existing laws and regulations are observed by the recipient of our product, in his own responsibility.

This safety data is valid without a signature, because it was created by computer.