

SAFETY DATA SHEET

Classified in accordance with Work Health and Safety Regulations 2011

1. Identification of the substance or mixture and of the supplier

GHS Product identifier: DERMOFEEL TEC ECO

Chemical name: Triethyl Citrate

Other means of identification

Recommended use of the chemical and restrictions on use

Recommended use: Industrial Use

Recommended restrictions: None known.

Supplier's details

Company Name : Evonik Australia Pty Ltd
Suites 33&37
1 Ricketts Road
Mt Waverley, VIC 3149
Australia

Telephone : +61 3 8581 8400

Fax : +61 3 9544 5002

E-mail : product-regulatory-service@evonik.com

Emergency telephone number:

24-Hour Health Emergency : +61 2 9037 2994 +1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

GHS classification of substance or mixture, and national or regional information:
Not classified

GHS label elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Precautionary Statements

Other hazards which do not result in GHS classification: None

3. Composition/information on ingredients

Chemical name: Triethylcitrate

AU 2019-06-17



Version: 1.0

Revision Date: 26.04.2019

Substances

Composition Comments: The components are not hazardous or are below required disclosure limits.

Composition Comments: The components are not hazardous or are below required disclosure limits.

4. First-aid measures

Description of necessary first-aid measures

General information: Remove soiled or soaked clothing immediately

Inhalation: Ensure supply of fresh air. In the event of symptoms seek medical advice.

Skin Contact: In case of contact with skin wash off immediately with soap and water. In the event of symptoms seek medical advice.

Eye contact: In case of contact with eyes rinse thoroughly with water. In the event of symptoms seek medical advice.

Ingestion: Thoroughly clean the mouth with water. Do not induce vomiting. In the event of symptoms seek medical advice.

Personal Protection for First aid Responders:

Do not inhale explosion and/or combustion gases,
Self-contained breathing apparatus.

Most important symptoms/effects, acute and delayed

Symptoms: No special hints.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media:

Full water jet Specific hazards arising from the chemical:

In the event of fire the following can be released: - carbon dioxide, carbon monoxide Under certain conditions of combustion traces of other toxic substances cannot be excluded

Special protective equipment and precautions for firefighters

**Special fire fighting procedures:**

Vapours of the product are heavier than air. Vapours may form explosive mixtures with air

Special protective equipment for fire-fighters:

Do not inhale explosion and/or combustion gases
Self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment.

Methods and material for containment and cleaning up: Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.

Environmental Precautions:

Do not discharge into the subsoil/soil. Do not allow to enter drains or waterways

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):

No data available.

Safe handling advice:

Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. No special measures necessary if stored and handled as prescribed.

Contact avoidance measures:

No data available.

Hygiene measures:

Do not eat, drink or smoke when working. Wash hands before breaks and immediately after handling the product. Remove soiled or soaked clothing immediately.

Storage

Safe storage conditions:

Keep away from oxidizing agents and strongly acid or alkaline materials. Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight. Do not store < 5 °C. Do not keep at temperatures above 30 °C.

Safe packaging materials:

No data available.

Other Laws:

not measured

8. Exposure controls/personal protection

Control Parameters**Occupational Exposure Limits**

None of the components have assigned exposure limits.

Appropriate Engineering Controls:

No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection: This product is not classified as a hazardous substance. Any necessity for eye protection must be determined within the scope of a risk assessment.



Skin Protection

Hand Protection: Additional Information: The protective gloves to be worn must satisfy the specifications of Regulation (EU) 2016/425 and the resulting Standard EN374., Specific workplace situations must be considered separately.

Other: protective clothing

Respiratory Protection: in case of formation of vapours/aerosols: Short term: filter apparatus, Filter A-P2

Hygiene measures: Do not eat, drink or smoke when working. Wash hands before breaks and immediately after handling the product. Remove soiled or soaked clothing immediately.

9. Physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	light yellow
Odor:	Characteristic
Odor Threshold:	not measured
pH:	Not applicable
Freezing point:	not measured
Boiling Point:	127 °C
Flash Point:	155 °C
Evaporation Rate:	not measured
Flammability (solid, gas)	not measured
Explosive limit - upper (%):	not measured
Explosive limit - lower (%):	not measured
Vapor pressure:	1 mbar (107 °C)
Vapor density (air=1):	not measured
Density:	1.14 g/cm ³ (25 °C)
Relative density:	not measured
Solubility(ies)	
Solubility in Water:	Slightly Soluble
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	No data available.
Self Ignition Temperature:	not measured
Decomposition Temperature:	not measured
Kinematic viscosity:	Not applicable
Dynamic viscosity:	Not applicable

Other information

Explosive properties:	Not applicable
Oxidizing properties:	Not applicable
Minimum ignition temperature:	No data available.
Metal Corrosion:	No data available.

10. Stability and reactivity

Reactivity: see section "Possibility of hazardous reactions"

Chemical Stability: The product is stable under normal conditions.

Possibility of hazardous reactions: Exothermic reaction with: strong oxidants strong bases strong acids

Conditions to avoid: To avoid thermal decomposition, do not overheat.

Incompatible Materials: Unknown

Hazardous Decomposition Products: May be released in case of fire: carbon monoxide and carbon dioxide.

11. Toxicological information

Information on likely routes of exposure

Inhalation: Relevant route of exposure. Information on effects are given below.

Skin Contact: Relevant route of exposure. Information on effects are given below.

Eye contact: Relevant route of exposure. Information on effects are given below.

Ingestion: If handled correctly, not a relevant route of exposure. Information on effects are given below.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat): 5,900 mg/kg
LD 50 (Cat): 3,500 mg/kg

Dermal

Product: LD 50 (Rat): > 5,000 mg/kg

Inhalation

Product: LC 50 (Rat): 1300 ppm

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation



Product: non-irritant
(Rabbit, 24 h): non-irritant
not irritating
(Guinea Pig): not irritating

Serious Eye Damage/Eye Irritation

Product: not irritating
Rabbit: not irritating

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

Notifiable Carcinogenic Substances

No carcinogenic components identified
No carcinogenic components identified

Prohibited Carcinogenic Substances

No carcinogenic components identified
No carcinogenic components identified

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified
No carcinogenic components identified

ACGIH Carcinogen List:

No carcinogenic components identified
No carcinogenic components identified

Germ Cell Mutagenicity

In vitro
Product: No data available.

In vivo
Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: Not classified

Other effects: Proper use provided, no adverse health effects have been observed or have been come to our knowledge.

**12. Ecological information****Ecotoxicity:****Acute hazards to the aquatic environment:****Fish****Product:** LC 50 (gold orfe, 48 h): 450 mg/l**Aquatic Invertebrates****Product:** NOEL (Daphnia magna, 48 h): > 100 mg/l**Chronic hazards to the aquatic environment:****Fish****Product:** No data available.**Aquatic Invertebrates****Product:** No data available.**Toxicity to Aquatic Plants****Product:** NOEL (Scenedesmus capricornutum (fresh water algae), 72 h): > 100 mg/l**Persistence and Degradability****Biodegradation****Product:** 78 % (28 d, OECD)**BOD/COD Ratio****Product:** No data available.**Bioaccumulative potential****Bioconcentration Factor (BCF)****Product:** No data available.**Partition Coefficient n-octanol / water (log Kow)****Product:** Log Kow: No data available.**Mobility in soil:** No data available.**Other adverse effects:** The product is classified as slightly hazardous to waters (according to the German Regulation on the Classification of Substances Hazardous to Waters (WwSV). Do not allow to enter soil, waterways or waste water canal.**13. Disposal considerations****Disposal methods:** In accordance with local authority regulations, take to special waste incineration plant**Contaminated Packaging:** If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.**14. Transport information****Domestic regulation**

**ADG**

Not regulated as a dangerous good

International Regulations**UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

15. Regulatory information**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poisons Schedule Number****Product:** Poisons schedule number not allocated.**Notifiable Carcinogenic Substances**

Not Regulated

Prohibited Carcinogenic Substances

Not Regulated

National Pollutant Inventory (NPI) substance reporting list

Not Regulated

Prohibited Substances (National Model Regulations for the Control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994))

Not Regulated

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not Regulated

Importation of Ozone Depleting Substances (Customs (Prohibited Imports) Regulations 1956, Schedule 10)

Not Regulated

High Volume Industrial Chemicals (HVIC)

Not Regulated

International regulations**Montreal protocol**

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

16. Other Information

Revision Date: 26.04.2019
26.04.2019

Further Information: No data available.
No data available.

References: No data available.

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; **ADN** - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; **AGW** - Occupational exposure limit; **ASTM** - American Society for Testing and Materials; **AwSV** - Ordinance on facilities for handling substances that are hazardous to water; **BSB** - Biochemical oxygen demand; **c.c.** - closed cup; **CAS** - Chemical Abstract Services; **CESIO** - European Committee of Organic Surfactants and their Intermediates; **CSB** - Chemical oxygen demand; **DMEL** - Derived minimum effect level; **DNEL** - Derived no effect level; **EbC50** - median concentration in terms of reduction of growth; **EC** - Effective concentration; **EINECS** - European Inventory of Existing Commercial Chemical Substances; **EN** - European norm; **ErC50** - median concentration in terms of reduction of growth rate; **GGVSEB** - German ordinance for road, rail and inland waterway transportation of dangerous goods; **GGVSee** - German ordinance for sea transportation of dangerous goods; **GLP** - Good Laboratory Practice; **GMO** - Genetic Modified Organism; **IATA** - International Air Transport Association; **ICAO** - International Civil Aviation Organization; **IMDG** - International Maritime Dangerous Goods; **ISO** - International Organization For Standardization; **LD/LC** - lethal dosis/concentration; **LOAEL** - Lowest observed adverse effect level; **LOEL** - Lowest observed effect level; **M-Factor** - multiplying factor; **NOAEL** - No observed adverse effect level; **NOEC** - no observed effect concentration; **NOEL** - no observed effect level; **o.c.** - open cup; **OECD** - Organisation for Economic Cooperation and Development; **OEL** - Occupational Exposure Limit; **PBT** - Persistent, bioaccumulative, toxic; **PNEC** - Predicted no effect concentration; **REACH** - REACH registration; **RID** - Convention concerning International Carriage by Rail; **SVHC** - Substances of Very High Concern; **TA** - Technical Instructions; **TRGS** - Technical Rules for Hazardous Substances; **vPvB** - very persistent, very bioaccumulative; **WGK** - Water Hazard Class

Disclaimer: This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared.

Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes

to the information and/or recommendations at any time, without prior or subsequent notice.

9/10

AU 2019-06-17



Version: 1.0
Revision Date: 26.04.2019

