



## SAFETY DATA SHEET TERGITOL L 81 E SURFACTANT

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

|                          |                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name             | TERGITOL L 81 E SURFACTANT                                                                                                                        |
| Product number           | 10191                                                                                                                                             |
| Synonyms; trade names    | TERGITOL L81E                                                                                                                                     |
| REACH registration notes | Exempt -polymer exempt by Article 2(9) This product is not classified as hazardous, the information in this datasheet is given for guidance only. |
| CAS number               | 9003-11-6                                                                                                                                         |

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

|                 |            |
|-----------------|------------|
| Identified uses | Surfactant |
|-----------------|------------|

#### 1.3. Details of the supplier of the safety data sheet

|          |                                                                                                                                                                     |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supplier | Univar Solutions UK Ltd<br>Aquarius House<br>6 Mid Point Business Park<br>Bradford<br>BD3 7AY<br>+44 1274 267300<br>+44 1274 267306<br>SDS.EMEA@univarsolutions.com |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 1.4. Emergency telephone number

|                     |                                |
|---------------------|--------------------------------|
| Emergency telephone | SGS - +32 (0)3 575 55 55 (24h) |
| Sds No.             | 10191                          |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

|                       |                |
|-----------------------|----------------|
| Physical hazards      | Not Classified |
| Health hazards        | Not Classified |
| Environmental hazards | Not Classified |

#### 2.2. Label elements

|                   |                   |
|-------------------|-------------------|
| Hazard statements | NC Not Classified |
|-------------------|-------------------|

#### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria. In case of spills, beware of slippery floors and surfaces.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

## TERGITOL L 81 E SURFACTANT

|                                         |                     |
|-----------------------------------------|---------------------|
| <b>POLYALKYLENE GLYCOL</b>              | <b>&gt;= 99.0 %</b> |
| CAS number: 9003-11-6                   |                     |
| Polymer                                 |                     |
| <b>Classification</b><br>Not Classified |                     |

The full text for all hazard statements is displayed in Section 16.

|                                 |                                                                                                                                                   |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product name</b>             | TERGITOL L 81 E SURFACTANT                                                                                                                        |
| <b>REACH registration notes</b> | Exempt -polymer exempt by Article 2(9) This product is not classified as hazardous, the information in this datasheet is given for guidance only. |
| <b>CAS number</b>               | 9003-11-6                                                                                                                                         |
| <b>Composition comments</b>     | The data shown are in accordance with the latest EC Directives.                                                                                   |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                            |                                                                                                                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b> | Wear protective clothing as described in Section 8 of this safety data sheet.                                                                                                                                               |
| <b>Inhalation</b>          | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse nose and mouth with water. Get medical attention if any discomfort continues.                                    |
| <b>Ingestion</b>           | Rinse mouth thoroughly with water. Do not induce vomiting unless under the direction of medical personnel. Get medical attention if any discomfort continues.                                                               |
| <b>Skin contact</b>        | Remove affected person from source of contamination. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention if any discomfort continues. |
| <b>Eye contact</b>         | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.                                |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                    |                                     |
|--------------------|-------------------------------------|
| <b>Eye contact</b> | May cause temporary eye irritation. |
|--------------------|-------------------------------------|

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

|                             |                                                                     |
|-----------------------------|---------------------------------------------------------------------|
| <b>Notes for the doctor</b> | Treat symptomatically. If in doubt, get medical attention promptly. |
|-----------------------------|---------------------------------------------------------------------|

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                       |                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. |
| <b>Unsuitable extinguishing media</b> | Do not use water jet as an extinguisher, as this will spread the fire.           |

#### 5.2. Special hazards arising from the substance or mixture

|                         |                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specific hazards</b> | When heated and in case of fire, toxic vapours/gases may be formed. Containers can burst violently or explode when heated, due to excessive pressure build-up. Do not use water jet as an extinguisher, as this will spread the fire. |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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### Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Aldehydes. Alcohols. Ethers. Hydrocarbons. Ketones. Acids - organic. Polymer Oxides of the following substances: Carbon.

### 5.3. Advice for firefighters

### Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Keep unnecessary and unprotected personnel away from the spillage. Take care as floors and other surfaces may become slippery.

### 6.2. Environmental precautions

#### Environmental precautions

Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

### 6.3. Methods and material for containment and cleaning up

#### Methods for cleaning up

Stop leak if safe to do so. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Do not flush away residues with water.

### 6.4. Reference to other sections

#### Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Usage precautions

Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Take care as floors and other surfaces may become slippery. Contact with hot product can cause serious thermal burns.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place.

### 7.3. Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Ingredient comments

No exposure limits known for ingredient(s).

### 8.2. Exposure controls

#### Protective equipment



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|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appropriate engineering controls</b> | Provide adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure.                                                                                                                                                                                                                                                                   |
| <b>Eye/face protection</b>              | Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.                                                                                                                                   |
| <b>Hand protection</b>                  | Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374.               |
| <b>Other skin and body protection</b>   | Wear suitable protective clothing as protection against splashing or contamination.                                                                                                                                                                                                                                                                                                                                               |
| <b>Hygiene measures</b>                 | When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Eye wash facilities and emergency shower must be available when handling this product.                                                                                                                             |
| <b>Respiratory protection</b>           | No specific requirements are anticipated under normal conditions of use. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. If ventilation is inadequate, suitable respiratory protection must be worn. EN 136/140/141/145/143/149 |

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|                                                     |                                 |
|-----------------------------------------------------|---------------------------------|
| <b>Appearance</b>                                   | Viscous liquid. to Solid.       |
| <b>Colour</b>                                       | Colourless.                     |
| <b>Odour</b>                                        | Odourless.                      |
| <b>Odour threshold</b>                              | No information available.       |
| <b>pH</b>                                           | pH (concentrated solution): 8.7 |
| <b>Melting point</b>                                | No information available.       |
| <b>Pour Point</b>                                   | - 20°C Calculation method.      |
| <b>Freezing Point</b>                               | No information available.       |
| <b>Initial boiling point and range</b>              | No information available.       |
| <b>Flash point</b>                                  | 150°C Closed cup.               |
| <b>Evaporation rate</b>                             | No information available.       |
| <b>Evaporation factor</b>                           | No information available.       |
| <b>Flammability (solid, gas)</b>                    | No information available.       |
| <b>Upper/lower flammability or explosive limits</b> | No information available.       |
| <b>Other flammability</b>                           | No information available.       |
| <b>Vapour pressure</b>                              | No information available.       |
| <b>Vapour density</b>                               | No information available.       |

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|                                                 |                                    |
|-------------------------------------------------|------------------------------------|
| <b>Relative density</b>                         | 1.05 @ 25°C Calculation method.    |
| <b>Bulk density</b>                             | No information available.          |
| <b>Solubility(ies)</b>                          | < 10 g/l water @ 20°C              |
| <b>Partition coefficient</b>                    | No information available.          |
| <b>Auto-ignition temperature</b>                | > 450°C Calculation method.        |
| <b>Decomposition Temperature</b>                | No information available.          |
| <b>Viscosity</b>                                | 224 cSt @ 40°C Calculation method. |
| <b>Explosive properties</b>                     | No information available.          |
| <b>Explosive under the influence of a flame</b> | No information available.          |
| <b>Oxidising properties</b>                     | No information available.          |

### 9.2. Other information

|                                  |                           |
|----------------------------------|---------------------------|
| <b>Refractive index</b>          | No information available. |
| <b>Particle size</b>             | No information available. |
| <b>Molecular weight</b>          | 2000                      |
| <b>Volatility</b>                | No information available. |
| <b>Saturation concentration</b>  | No information available. |
| <b>Critical temperature</b>      | No information available. |
| <b>Volatile organic compound</b> | No information available. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|                   |                                                                     |
|-------------------|---------------------------------------------------------------------|
| <b>Reactivity</b> | There are no known reactivity hazards associated with this product. |
|-------------------|---------------------------------------------------------------------|

### 10.2. Chemical stability

|                  |                                                                     |
|------------------|---------------------------------------------------------------------|
| <b>Stability</b> | Stable at normal ambient temperatures and when used as recommended. |
|------------------|---------------------------------------------------------------------|

### 10.3. Possibility of hazardous reactions

|                                           |                      |
|-------------------------------------------|----------------------|
| <b>Possibility of hazardous reactions</b> | Will not polymerise. |
|-------------------------------------------|----------------------|

### 10.4. Conditions to avoid

|                            |                                                     |
|----------------------------|-----------------------------------------------------|
| <b>Conditions to avoid</b> | Avoid excessive heat for prolonged periods of time. |
|----------------------------|-----------------------------------------------------|

### 10.5. Incompatible materials

|                           |                                                        |
|---------------------------|--------------------------------------------------------|
| <b>Materials to avoid</b> | Strong acids. Strong alkalis. Strong oxidising agents. |
|---------------------------|--------------------------------------------------------|

### 10.6. Hazardous decomposition products

|                                         |                                                                                                                                                                                                                           |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazardous decomposition products</b> | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Aldehydes. Alcohols. Ethers. Hydrocarbons. Ketones. Acids - organic. Polymer Oxides of the following substances: Carbon. |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** This product has low toxicity. This information is based on test data from similar products LD<sub>50</sub> > 4000 mg/kg, Oral, Rat Estimated value.

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** This information is based on test data from similar products LD<sub>50</sub> > 10000 mg/kg, Dermal, Rabbit

### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Not determined.

### Skin corrosion/irritation

**Skin corrosion/irritation** This information is based on test data from similar products Not irritating.

### Serious eye damage/irritation

**Serious eye damage/irritation** This information is based on test data from similar products May cause temporary eye irritation.

### Respiratory sensitisation

**Respiratory sensitisation** No information available.

### Skin sensitisation

**Skin sensitisation** No information available.

### Germ cell mutagenicity

**Genotoxicity - in vitro** This information is based on test data from similar products Negative.

### Carcinogenicity

**Carcinogenicity** No information available.

### Reproductive toxicity

**Reproductive toxicity - fertility** No information available.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** No information available.

### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

### Inhalation

Gas or vapour in high concentrations may irritate the respiratory system.

### Ingestion

May cause discomfort if swallowed.

### Skin contact

Skin irritation should not occur when used as recommended.

### Eye contact

May cause temporary eye irritation.

## SECTION 12: Ecological information

### Ecotoxicity

The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

### 12.1. Toxicity

#### Toxicity

Not considered toxic to fish.

#### Acute aquatic toxicity

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**Acute toxicity - fish** This information is based on test data from similar products  
LC<sub>50</sub>, 96 hours: > 100 mg/l, Cyprinus carpio (Common carp)

**Acute toxicity - aquatic invertebrates** This information is based on test data from similar products  
EC<sub>50</sub>, 48 hours: > 100 mg/l, Daphnia magna

### 12.2. Persistence and degradability

**Persistence and degradability** This information is based on test data from similar products The product is biodegradable.  
This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

**Biodegradation** - Degradation > 60%: 28 days

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product is not bioaccumulating.

**Partition coefficient** No information available.

### 12.4. Mobility in soil

**Mobility** No information available.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

**Other adverse effects** Not determined.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Waste should be treated as controlled waste. Do not puncture or incinerate, even when empty.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

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Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

## SECTION 15: Regulatory information

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

#### EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).

#### Health and environmental listings

This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

## TERGITOL L 81 E SURFACTANT

### Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.  
 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.  
 CAS: Chemical Abstracts Service.  
 DNEL: Derived No Effect Level.  
 IATA: International Air Transport Association.  
 IMDG: International Maritime Dangerous Goods.  
 Kow: Octanol-water partition coefficient.  
 LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.  
 LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).  
 PBT: Persistent, Bioaccumulative and Toxic substance.  
 PNEC: Predicted No Effect Concentration.  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.  
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  
 vPvB: Very Persistent and Very Bioaccumulative.  
 IARC: International Agency for Research on Cancer.  
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.  
 cATpE: Converted Acute Toxicity Point Estimate.  
 BCF: Bioconcentration Factor.  
 BOD: Biochemical Oxygen Demand.  
 EC<sub>50</sub>: 50% of maximal Effective Concentration.  
 LOAEC: Lowest Observed Adverse Effect Concentration.  
 LOAEL: Lowest Observed Adverse Effect Level.  
 NOAEC: No Observed Adverse Effect Concentration.  
 NOAEL: No Observed Adverse Effect Level.  
 NOEC: No Observed Effect Concentration.  
 LOEC: Lowest Observed Effect Concentration.  
 DMEL: Derived Minimal Effect Level.  
 EL50: Exposure Limit 50  
 hPa: Hectopascal  
 LL50: Lethal Loading fifty  
 OECD: Organisation for Economic Co-operation and Development  
 POW: Octanol-water partition coefficient  
 SCBA: self-contained breathing apparatus  
 STP: Sewage Treatment Plant  
 VOC: Volatile Organic Compounds

### Classification abbreviations and acronyms

Acute Tox. = Acute toxicity  
 Aquatic Acute = Hazardous to the aquatic environment (acute)  
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

### Key literature references and sources for data

Supplier's information.

### Classification procedures according to Regulation (EC) 1272/2008

Not classified.: Calculation method.

### Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

### Revision date

22/03/2022

## TERGITOL L 81 E SURFACTANT

|                        |            |
|------------------------|------------|
| <b>Version number</b>  | 2.000      |
| <b>Supersedes date</b> | 21/08/2017 |
| <b>SDS number</b>      | 10191      |
| <b>SDS status</b>      | Approved.  |
| <b>Signature</b>       | Lisa Bland |

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