

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Supersedes date 15-Mar-2017***

Revision date 21-Aug-2023

Revision Number 2

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

1.1. Product identifier

Product Code(s) 10193***

Safety data sheet number 10193***

Product Name TERGITOL TMN 10 (90% AQ) SURFACTANT

Synonyms TERGITOL TMN 10 (90% AQ) SURFACTANT***

Pure substance/mixture Mixture***

Contains POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-[3,5-DIMETHYL-1- (2-METHYLPROPYL)HEXYL]-.OMEGA.-HYDROXY-

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

Recommended use surfactant Coating Industrial use Professional use Consumer use***

1.3. Details of the supplier of the safety data sheet

Supplier

Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
GBR

For further information, please contact

E-mail address SDS.EMEA@univarsolutions.com

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

1.4. Emergency telephone number

Emergency Telephone SGS - +32 (0)3 575 55 55 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin corrosion/irritation	Category 2*** - (H315)***
Serious eye damage/eye irritation	Category 1*** - (H318)***

2.2. Label elements

Contains POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-[3,5-DIMETHYL-1- (2-METHYLPROPYL)HEXYL]-.OMEGA.-HYDROXY-

**Signal word**

Danger***

Hazard statements

H315 - Causes skin irritation

H318 - Causes serious eye damage***

Precautionary statements

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves and eye/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P321 - Specific treatment (see .? on this label)

P362 + P364 - Take off contaminated clothing and wash it before reuse***

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.***

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.***

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).***

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).***

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).***

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.***

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable***

3.2 Mixtures***

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-[3,5-DIMETHYL-1-(2-METHYLPROPYL)HEXYL]-.OMEGA.-HYDROXY-*** 60828-78-6	80 - 90%	-	-	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)***	-	-	-

WATER*** 7732-18-5	0 - 10%	231-791-2***	-	-	-	-	-
POLYETHYLENE GLYCOL*** 25322-68-3	0 - 10%	-	-	-	-	-	-

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Use personal protection recommended in Section 8.***
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.***
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.***
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if symptoms occur.***
Ingestion	Rinse mouth thoroughly with water. Do NOT induce vomiting. Get medical attention if symptoms occur.***

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

Eyes	Causes serious eye damage. Causes eye burns.***
Dermal	Causes skin irritation.***

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

Note to doctors	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Dry chemical, CO ₂ , alcohol-resistant foam or water spray.***
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	This material will not burn until the water has evaporated. When heated and in case of fire, toxic vapours/gases may be formed.***
Hazardous combustion products	Carbon oxides. Aldehydes. Ketone. Organic Acids.***

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. In case of spills, beware of slippery floors and surfaces.***

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. DO NOT USE WATER.***

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Do not swallow. Keep container closed when not in use. Wash thoroughly after handling.***

General hygiene considerations Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.***

7.3. Specific end use(s)

Specific use(s)
See section 1 for more information.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure Limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers ***

Chemical name	Oral	Dermal	Inhalation
POLYETHYLENE GLYCOL*** 25322-68-3		112 mg/kg bw/day [4] [6]***	40.2 mg/m ³ [4] [6]***

[4] Systemic health effects.***
[6] Long term.***

Derived No Effect Level (DNEL) - General Public ***

Chemical name	Oral	Dermal	Inhalation
POLYETHYLENE GLYCOL*** 25322-68-3	40 mg/kg bw/day [4] [6]***		7.14 mg/m ³ [4] [6]***

[4] Systemic health effects.***
[6] Long term.***

Predicted No Effect Concentration (PNEC) ***

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
POLYETHYLENE GLYCOL*** 25322-68-3	0.273 g/L***	1 mg/L***	27.3 mg/L***	0.1 mg/L***	

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
POLYETHYLENE GLYCOL*** 25322-68-3	1030 mg/kg sediment dw***	103 mg/kg sediment dw***		46.4 mg/kg soil dw***	

8.2. Exposure controls**Engineering controls**

No information available.

Personal protective equipment**Eye/face protection**

Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.***

Hand protection Wear suitable gloves.***

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
	Wear protective butyl rubber gloves***	> 0.35 mm***	> 120 minutes***
	Chlorinated polyethylene (CPE)***	> 0.35 mm***	> 120 minutes***
	Polyethylene (PE)***	> 0.35 mm***	> 120 minutes***

Skin and body protection Wear appropriate clothing to prevent reasonably probable skin contact.***

Respiratory protection Use appropriate respiratory protection.***

Organic gases and vapours filter conforming to EN 14387. Type AP2.***

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid***
Appearance	Liquid***
Colour	yellow***
Odour	Pungent.***
Odour threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing point		Not applicable***
Initial boiling point and boiling range	>*** 100*** °C***	@ 760 mmHg Calculation method***
Flammability		No information available
Flammability Limit in Air		No information available
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point		Not applicable***
Autoignition temperature		No information available
Decomposition temperature		No information available
pH	6.4***	Calculation method***
pH (as aqueous solution)		No information available
Kinematic viscosity	92*** cSt***	@ 25 °C Calculation method***
Dynamic viscosity	95.864*** mPa s***	Calculation method***
Water solubility	Soluble in water***	***
Solubility(ies)		No information available
Partition coefficient		Not determined***
Vapour pressure	15 mmHg***	@ 20 °C Calculation method***
Relative density	1.042***	@ 20 °C Calculation method***
Bulk density		
Calculation method***		Relative vapour density 0.6***
Not applicable***		Particle characteristics
		Particle Size
		Particle Size
		Distribution
Explosive properties	No information available	
Oxidising properties	No information available	

9.2. Other information

Pour Point -16*** 0.7***

SECTION 10: Stability and reactivity10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerisation Hazardous polymerisation does not occur.***

10.4. Conditions to avoid

Conditions to avoid Do not distill to dryness. Product can oxidise at elevated temperatures. Hazardous decomposition products will be formed at elevated temperatures.***

10.5. Incompatible materials

Incompatible materials Strong acids. Strong oxidising agents.***

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Aldehydes. Ketone. Organic Acids.***

SECTION 11: Toxicological information11.1. Information on toxicological effectsInformation on likely routes of exposureProduct Information

Inhalation Inhalation of vapours in high concentration may cause irritation of respiratory system.***

Eye contact Causes serious eye damage. Causes eye burns.***

Skin contact Causes skin irritation.***

Ingestion Gastrointestinal discomfort.***

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

No information available

The following values are calculated based on chapter 3.1 of the GHS document ***

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.***

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.***

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).***

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).***

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).***

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-[3,5-DIMETHYL-1-(2-METHYLPROPYL)HEXYL]-, OMEGA.-HYDROXY-***	= 5650 mg/kg (Rat) ***	= 4780 µL/kg (Rabbit)***	-
WATER***	> 90 mL/kg (Rat) ***	-	-
POLYETHYLENE GLYCOL***	> 10000 mg/kg (Rat) ***	> 20000 mg/kg (Rabbit)***	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation**

Causes skin irritation.***

Serious eye damage/eye irritation

Causes serious eye damage.***

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

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

STOT - repeated exposure

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

Aspiration hazard

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

Other adverse effects

No information available.

SECTION 12: Ecological information**12.1. Toxicity****Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.***

POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-[3,5-DIMETHYL-1- (2-METHYLPROPYL)HEXYL]-.OMEGA.-HYDROXY- (60828-78-6)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	<i>Pimephales promelas</i> ***	LC50***	103 mg/L***	96 hours***	
	<i>Daphnia magna</i> ***	LC50***	164.9 mg/L***	48 hours***	
Bacteria toxicity***		IC50***	> 1000 mg/L***	16 hours***	

POLYETHYLENE GLYCOL (25322-68-3)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	<i>Pimephales promelas</i> ***	LC50***	> 10000 mg/L***	96 hours***	
	<i>Daphnia magna</i> ***	LC50***	> 10000 mg/L***	48 hours***	
	<i>Skeletonema costatum</i> ***	EbC50***	14853 mg/L***	3 days***	

12.2. Persistence and degradability

Persistence and degradability No information available.

POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-[3,5-DIMETHYL-1- (2-METHYLPROPYL)HEXYL]-.OMEGA.-HYDROXY- (60828-78-6)

Method	Exposure time	Value	Results
			Not readily biodegradable***

POLYETHYLENE GLYCOL (25322-68-3)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)***	28 days***	Biodegradation 90 %***	Readily biodegradable***
OECD Test No. 306: Biodegradability in Seawater***	28 hours***	Biodegradation 55 %***	Readily biodegradable***

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

12.4. Mobility in soil

Mobility in soil Soluble in water.***

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
WATER***	The substance is not PBT / vPvB***
POLYETHYLENE GLYCOL***	The substance is not PBT / vPvB***

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

SECTION 14: Transport information**IATA**

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No***
14.6 Special precautions for user	
Special Provisions	None

IMDG

14.1 UN number or ID number	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No***
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No***
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No***
14.6 Special precautions for user	
Special Provisions	None

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

Authorisations and/or restrictions on use:

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).
 This product does not contain substances subject to authorisation (UK REACH - Annex XIV).***

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

TSCA	- United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL	- Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	- Japan Existing and New Chemical Substances
IECSC	- China Inventory of Existing Chemical Substances
KECL	- Korean Existing and Evaluated Chemical Substances
PICCS	- Philippines Inventory of Chemicals and Chemical Substances
AIIC	- Australian Inventory of Industrial Chemicals
NZIoC	- New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H315 - Causes skin irritation

H318 - Causes serious eye damage***

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		
Revision Note ***Indicates updated data since last publication			

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Method Used

Acute oral toxicity***	Calculation method***
Acute dermal toxicity***	Calculation method***
Acute inhalation toxicity - gas***	Calculation method***
Acute inhalation toxicity - vapour***	Calculation method***
Acute inhalation toxicity - dust/mist***	Calculation method***
Skin corrosion/irritation***	Calculation method***
Serious eye damage/eye irritation***	Calculation method***
Respiratory sensitisation***	Calculation method***
Skin sensitisation***	Calculation method***
Mutagenicity***	Calculation method***
Carcinogenicity***	Calculation method***
Reproductive toxicity***	Calculation method***
STOT - single exposure***	Calculation method***
STOT - repeated exposure***	Calculation method***
Acute aquatic toxicity***	Calculation method***
Chronic aquatic toxicity***	Calculation method***
Aspiration hazard***	Calculation method***
Ozone***	Calculation method***

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
 European Chemicals Agency (ECHA) (ECHA_API)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 National Institute of Technology and Evaluation (NITE)
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
 Organisation for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

Prepared By Lisa Bland***

Supersedes date 15-Mar-2017***

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This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)
 Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet