SAFETY DATA SHEET

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

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

1.1 Product identifier

Product name:
TEGO® Wet 505

Chemical name:
Non-ionic surfactant

Additional identification

Chemical name:	Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether
Chemical formula:	-
INDEX No.	-
CAS-No.	303152-49-0
EC No.	-
REACH Registration No.:	-

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

Identified uses: Industrial use

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Company Name	:	Evonik Operations GmbH Rellinghauser Str. 1-11 45128 Essen Germany
Telephone	:	+49 201 173 01
Fax	:	+49 201 173 3000
E-mail	:	productsafety-cs@evonik.com

1.4 Emergency telephone number:

24-Hour Health Emergency	:	+49 2365 49 2232 +49 2365 49 4423 (Fax)

National Poison Information Service (NPIS)
England, Scotland and Wales: NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Environmental Hazards

Chronic hazards to the aquatic environment	Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label Elements

Hazard Statement(s): H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P273: Avoid release to the environment.

Disposal: P501: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

Chemical name:
Non-ionic surfactant

3.1 Substances

Chemical name: Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether
INDEX No.:
CAS-No.: 303152-49-0
EC No.:
REACH Registration No.: -

Chemical name	Concentration	CAS-No.	EC No.	UK-REACH Registration No.	REACH Registration No.	M-Factor:	Notes
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	50 - <100%	303152-49-0			-for RE;	No data available.	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
# This substance has workplace exposure limit(s).
This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-	Classification**:** Aquatic Chronic**:** 3**:** H412**;**	None.

trimethylhexyl) ether	Supplemental label information**:** None known.	

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Remove soiled or soaked clothing immediately

Inhalation: fresh air supply, consult a doctor if feeling unwell.

Skin Contact: In case of contact with skin wash off immediately with soap and water In case of discomfort: Supply with medical care.

Eye contact: In case of contact with eyes rinse thoroughly with water. In case of discomfort: Supply with medical care.

Ingestion: Thoroughly clean the mouth with water In case of discomfort: Supply with medical care.

Personal Protection for First-aid Responders: No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Up to now no symptoms are known.

Hazards: No data available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: High volume water jet.

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters

Special fire fighting procedures: No specific precautions.

Special protective equipment for fire-fighters: Do not inhale explosion and/or combustion gases. Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.

6.1.1 For non-emergency personnel:	No data available.
6.1.2 For emergency responders:	No data available.
6.2 Environmental Precautions:	Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.
6.3 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.
6.4 Reference to other sections:	For further information on exposure monitoring and disposal see sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures:	No data available.
Local/Total ventilation:	No data available.
Safe handling advice:	Provide good ventilation of working area (local exhaust ventilation if necessary).Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.
Contact avoidance measures:	No data available.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions:	Keep container tightly closed in a cool, well-ventilated place.
Safe packaging materials:	No data available.

7.3 Specific end use(s): No further recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits
None of the components have assigned exposure limits.

Biological Limit Values
No biological exposure limits noted for the ingredient(s).

DNEL-Values
Remarks: No DNEL/DMEL values on file.

PNEC-Values
Remarks: No PNEC values on file.

8.2 Exposure controls

Appropriate Engineering Controls: No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety goggles

Hand Protection:	Material: Natural rubber. Break-through time: 480 min Glove thickness: 0.5 mm Material: Chloroprene Break-through time: 480 min Glove thickness: 0.6 mm Material: Nitrile rubber. Break-through time: 480 min Glove thickness: 0.1 mm Material: Fluorinated rubber Break-through time: 480 min Glove thickness: 0.7 mm Material: Butyl rubber. Break-through time: 480 min Glove thickness: 0.3 mm
Skin and Body Protection:	protective clothing
Respiratory Protection:	in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2
Hygiene measures:	When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Remove soiled or soaked clothing immediately.
Environmental Controls:	The environmental regulations on the control and monitoring of environmental exposures are to be observed.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	yellowish
Odor:	Characteristic
Odor Threshold:	not measured
Freezing point:	not measured
Boiling Point:	not measured
Flammability:	not measured
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	not measured
Explosive limit - lower:	not measured
Flash Point:	> 200 °C Method: DIN EN 22719
Auto-ignition temperature:	not measured
Decomposition Temperature:	not measured
pH:	Not applicable
Viscosity	
Dynamic viscosity:	25 - 40 mPa.s at 25 °C Method: DIN 53015

Kinematic viscosity:	25 - 40 mm2/s at 25 °C , Method: calculated

Solubility(ies)

Solubility in Water:	Insoluble
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured
Vapor pressure:	not measured
Relative density:	not measured
Density:	0.940 - 0.990 g/cm3 at 25 °C Method: DIN 51757
Relative vapor density:	not measured

9.2 Other information

Explosive properties:	not measured
Oxidizing properties:	not measured
Self-ignition:	not measured
Metal Corrosion:	not measured
Evaporation Rate:	not measured

SECTION 10: Stability and reactivity

10.1	**Reactivity:**	see section "Possibility of hazardous reactions".
10.2	**Chemical Stability:**	The product is stable under normal conditions.
10.3	**Possibility of hazardous reactions:**	No hazardous reactions with proper storage and handling
10.4	**Conditions to avoid:**	None with proper storage and handling.
10.5	**Incompatible Materials:**	Not known.
10.6	**Hazardous Decomposition Products:**	None with proper storage and handling.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Inhalation:	Information on effects are given below.
Skin Contact:	Information on effects are given below.
Eye contact:	Information on effects are given below.
Ingestion:	Information on effects are given below.

Acute toxicity (list all possible routes of exposure)

Oral

Product:	LD 50, Rat, > 2,000 mg/kg, OECD 423

Components:

Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	LD 50, Rat, > 2,000 mg/kg, OECD 423

Dermal

Product: No data available.
Not classified for acute toxicity based on available data.

Components:

Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	Not toxic after single exposure, No data available.

Inhalation

Product: No data available.
Not classified for acute toxicity based on available data.

Components:

Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	Vapour, Not toxic after single exposure, No data available. Dust and mist, Not toxic after single exposure, No data available.

Repeated dose toxicity

Product: No data available.

Components:

Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

Skin Corrosion/Irritation

Product: Not irritating, OECD 404, (Rabbit), Not irritating

Components:

Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	Not irritating, OECD 404, Rabbit

Serious Eye Damage/Eye Irritation

Product: Not irritating, OECD 405, Rabbit, Not irritating

Components:

Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	Not irritating, OECD 405, Rabbit

Respiratory or Skin Sensitization

Product: No data available.

Components:

Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

Carcinogenicity

Product: No data available.

Components:

Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

Germ Cell Mutagenicity

No data available.

In vitro

Product:	No data available.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

In vivo

Product:	No data available.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

Reproductive toxicity

Product:	No data available.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

Specific Target Organ Toxicity - Single Exposure

Product:	No data available.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

Aspiration Hazard

Product:	Not classified
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	Not classified

11.2 Information on other hazards

Other information

Product:	No data available.

SECTION 12: Ecological information

12.1 Toxicity:

Acute hazards to the aquatic environment:

Fish

Product:	LC 50, Fish, 96 h, 17.7 mg/l OECD 203
Components:	
Oxirane, 2-ethyl-,	LC 50, Fish, 96 h, 17.7 mg/l OECD 203

polymer with oxirane, mono(3,5,5-trimethylhexyl) ether

Aquatic Invertebrates

Product:	EC 50, Daphnia magna, 48 h, 24.9 mg/l OECD 202
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	EC 50, Daphnia magna, 48 h, 24.9 mg/l OECD 202

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

Toxicity to soil dwelling organisms

Product:	No data available.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

Toxicity to terrestrial organisms

Product:	No data available.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

Toxicity to Aquatic Plants

Product:	No data available.

Components:

Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

Toxicity to soil dwelling organisms

Product:	No data available.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

Toxicity to terrestrial organisms

Product:	No data available.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

12.2 Persistence and Degradability

Biodegradation

Product:	The product is not biodegradable.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	The product is not biodegradable.

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

Partition Coefficient n-octanol / water (log Kow)

Product:	not measured
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

12.4 Mobility in soil:

Product	No data available.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

12.5 Results of PBT and vPvB assessment:

Product	No data available.
Components:	
Oxirane, 2-ethyl-, polymer with oxirane, mono(3,5,5-trimethylhexyl) ether	No data available.

12.6 Other adverse effects:

Other hazards
Product: Do not allow to enter soil, waterways or waste water canal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: No data available.

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.

SECTION 14: Transport information

14.1 UN/ID No.
Not regulated as a dangerous good

14.2 UN proper shipping name
Not regulated as a dangerous good

14.3 Transport hazard class(es)
Not regulated as a dangerous good

14.4 Packing group
Not regulated as a dangerous good

14.5 Environmental hazards
Not regulated as a dangerous good

14.6 Special precautions for user
Not applicable

14.7 Maritime transport in bulk according to IMO instruments
Not applicable for product as supplied.

SECTION 15: Regulatory information

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

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: Not applicable

15.2 Chemical safety assessment: No chemical safety assessment was carried out for this product.

International regulations

Montreal protocol
Not applicable

Stockholm convention
Not applicable

Rotterdam convention
Not applicable

Kyoto protocol
Not applicable

SECTION 16: Other information

Abbreviations and acronyms:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA - European Industrial Gases Association; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data: No data available.

Training information: Comply with national laws regulating employee instruction.

Revision Information	Changes since the last version are highlighted in the margin. This version replaces all previous versions.
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