



PRODUCT: EMULGANTE/EL-30 (EMEL30) REVISION: 2 DATED: 16/03/2021 PAGE 1 OF 6

PRODUCT SPECIFICATION			
Product Name	Emulgante/EL-30		
Specification Reference	EMEL30/2 (21/03/0043280)		
Product Description			
EMULGANTE EL-30 is a castor oil polyethylene glycol ether, (about 30 moles of ethylene oxide).			
Sales Specification			
Property	Test Method	Unit	Specification
√ Appearance at 25°C	Visual	-	Clear liquid
Colour	RCM 3668	Gardner	≤ 7.0
√ Cloud point (10% in BDG at 25%)	RCM 3646	°C	68 – 69
Saponification number	RCM 3820	mg KOH / g	70 – 76
Acid number	RCM 3817	mg KOH / g	≤ 1.0
√ pH (10% water solution)	RCM 3645	-	5.0 – 7.5
Free Water (Karl Fischer)	RCM 3804	% mass	≤ 0.50
√ value reported on inspection certificate.			
Additional Information			
Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	59
HLB	Calculated	-	11.8
Average Molecular weight	calculated	g/mol	2.300
Pour point	ASTM D 97	°C	9
Viscosity at 50°C	ASTM D7042	cSt	130
Density at 50°C	ASTM D7042	kg/m ³	1.020
Flash point	ASTM D 93	°C	> 125
Main Applications			
EMULGANTE EL-30 is used as lubricant, oil emulsifier and wetting agent for fibre finish in textile field. In metalworking field EMULGANTE EL-30 is used as cutting and drawing fluid ingredient.			
In leather application EMULGANTE EL-30 is used as rewetting agent and softener.			
Handling and Storage			
EMULGANTE EL-30 should preferably be stored in stainless steel tanks.			
It is suggested to keep the product at temperature below 40°C, it is preferable to avoid heating above 60°C and to store under nitrogen in order to minimise yellowish phenomena.			
EMULGANTE EL-30 is a clear liquid at room temperature and it becomes a solid wax at temperature lower than 9°C.			
Avoid contact with strong oxidizers, strong acids and strong bases.			
Shelf-life is 24 months from production date for product in its original and sealed packaging.			
NOTES			
Exclusion of Liability			
Information contained in this publication is accurate to the best of the knowledge and belief of Tennants.			
Any information or advice obtained from Tennants otherwise than by means of this publication and whether relating to Tennants materials or other materials, is also given in good faith. However, it remains at all times the responsibility of the customer to ensure that Tennants materials are suitable for the particular purpose intended.			
Tennants accepts no liability whatsoever (except as otherwise provided by law) arising out of the use of information supplied, the application, adaptation or processing of the products described herein, the use of other materials in lieu of Tennants materials or the use of Tennants materials in conjunction with such other materials.			
Health and Safety			
A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on the handling precautions and emergency procedures. This must be consulted fully before handling, storage and use.			



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SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product Identifier

Product Name Emulgante EL-30

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

Identified use(s)

Emulsifying agent

Uses advised against: Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet

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1.4 Emergency telephone number

Tel: 44(0)844 335 0001 (24 hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation 1272/2008 (CLP)

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP).

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard statement(s)

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.3 Other hazards

No hazards to be specially mentioned

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component type: Active ingredient

Chemical Name	CAS No.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	EU REACH Registration No.
Castor oil, ethoxylated	61791-12-6	-	Not relevant (polymer)

COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES

No dangerous ingredients according to Regulation (EC) No. 1907/2006

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

No hazards which require special first aid measures.

Inhalation

Remove from exposure and lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.

Skin contact

Wash off with soap and water.

Eye contact

Rinse thoroughly with plenty of water.

Ingestion

Consult a physician if necessary. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No information available.



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5. FIRE FIGHTING MEASURES
5.1 Extinguishing Media Suitable extinguishing agents Water, Foam, Dry powder, Carbon dioxide (CO ₂)
5.2 Special hazards arising from the substance or mixture Dangerous gases or fumes may occur in case of fire.
5.3 Advice for fire-fighters Protective equipment: Wear self-contained breathing apparatus for firefighting if necessary. Further information: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
6. ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, protective equipment and emergency procedures Handle in accordance with good industrial hygiene and safety practice. Special precautions: Forms slippery/greasy layers with water.
6.2 Environmental precautions Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
6.3 Methods and material for containment and cleaning up Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, saw dust).
6.4 Reference to other sections For personal protection see section 8.
7. HANDLING AND STORAGE
7.1 Precautions for safe handling No special technical protective measures required. Advice on protection against fire and explosion: Normal measures for preventive fire protection.
7.2 Conditions for safe storage, including any incompatibilities Requirements for storage areas and containers No special storage conditions required. German storage class (TRGS 510) 10: Combustible liquids not in Storage Class 3 Other data Protect from frost, heat and sunlight.
7.3 Specific end use(s) No further data
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control parameters
Exposure Limits No data available
8.2 Exposure controls
Eye/face protection Safety glasses
Hand protection The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time., Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Gloves suitable for permanent contact: Material: butyl-rubber Break through time: >= 480 min Material thickness: >= 0.7 mm Gloves suitable for splash protection: Material: Nitrile rubber/nitrile latex Break through time: >= 30 min Material thickness: >= 0.4 mm
Respiratory protection No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A -P2 or ABEK-P2), in compliance with EN 141.
Skin and body protection Protective suit



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General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and after work.	
Environmental exposure controls General advice Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.	
9. PHYSICAL AND CHEMICAL PROPERTIES	
9.1 Information on basic physical and chemical properties	
Physical state	liquid; 20 °C; 1,013 hPa
Form	liquid
Colour	clear
Odour	slight, sweet, characteristic
Odour Threshold	No data available
pH	5 - 7; 10 g/l; 20 °C
Drop point	0 - 10 °C; 1,013 hPa
Boiling point/boiling range	> 250 °C; 1,013 hPa
Flash point	> 125 °C; 1,013 hPa
Evaporation rate	No data available
Flammability (solid, gas)	not applicable (liquid)
Lower explosion limit	not determined
Upper explosion limit	not determined
Vapour pressure	< 0.00015 hPa; 20 °C
Relative vapour density	not determined
Density	ca.1.020 g/cm ³ ; 50 °C; 1,013 hPa
Relative density	No data available
Bulk density	No data available
Solubility in other solvents	Medium: Alcohol; 20 °C; soluble. Medium: Acetone; 20 °C; soluble Medium: Hexane; 20 °C; negligible
Water solubility	20 °C; 1,013 hPa
Partition coefficient: n- octanol/water	not applicable. Justification: surface-active substance
Ignition temperature	No data available
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	ca. 130 mPa·s; 50 °C
Explosive properties	Not explosive
Oxidizing properties	No data available
9.2 Other information None known	
10. STABILITY AND REACTIVITY	
10.1 Reactivity Stable at normal ambient temperature and pressure. No decomposition if stored and applied as directed.	
10.2 Chemical stability No decomposition if stored and applied as directed.	
10.3 Possibility of hazardous reactions None known.	
10.4 Conditions to avoid Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.	
10.5 Incompatible materials None known.	
10.6 Hazardous decomposition products No decomposition if stored normally. Thermal decomposition No decomposition if used as directed.	
11. TOXICOLOGICAL INFORMATION	
11.1 Information on toxicological effects	
Acute toxicity Acute oral toxicity Castor oil, ethoxylated: LD50 rat: > 5,000 mg/kg; OECD Test Guideline 401 Category approach Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Acute inhalation toxicity	



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Castor oil, ethoxylated:

No data available

Acute dermal toxicity

Castor oil, ethoxylated:

No data available

Skin corrosion/irritation

Skin irritation

Castor oil, ethoxylated:

Rabbit: slightly irritating; OECD Test Guideline 404 Category approach

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

Serious eye damage/eye irritation

Eye irritation

Castor oil, ethoxylated:

Rabbit: not irritating; OECD Test Guideline 405 Category approach

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

Respiratory or skin sensitisation

Sensitisation

Castor oil, ethoxylated:

Mouse local lymph node assay : not sensitizing; OECD Test Guideline 406 Category approach

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

Germ cell mutagenicity

Genotoxicity in vitro

castor oil, ethoxylated:

Ames test; Salmonella typhimurium; with and without metabolic activation: not mutagenic; OECD Test Guideline 471. Category approach

Remarks: Castor oil, ethoxylated: Based on available data, the classification criteria are not met.

Carcinogenicity

Castor oil, ethoxylated: This information is not available.

Reproductive toxicity

Castor oil, ethoxylated: This information is not available.

Teratogenicity

Castor oil, ethoxylated: This information is not available.

STOT - single exposure

Remarks: castor oil, ethoxylated: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Repeated dose toxicity

Castor oil, ethoxylated: No data available

Aspiration hazard

Aspiration toxicity

Castor oil, ethoxylated: not applicable

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish

Castor oil, ethoxylated:

LC50 (96 h) Brachydanio rerio: > 100 mg/l; semi-static test; OECD Test Guideline 203. Category approach

Toxicity to daphnia and other aquatic invertebrates

Castor oil, ethoxylated:

EC50 (48 h) Daphnia magna (Water flea): > 10 - 100 mg/l; static test; OECD Test Guideline 202. Category approach

Toxicity to aquatic plants

Castor oil, ethoxylated:

EC50 (72 h) Desmodesmus subspicatus (green algae): > 100 mg/l; static test; OECD Test Guideline 201; Category approach

Toxicity to bacteria

Castor oil, ethoxylated:

EC50 (4.67 h) Pseudomonas putida: > 990 mg/l; oxygen consumption test. Category approach

12.2 Persistence and degradability

Biodegradability

Castor oil, ethoxylated:

Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301 B Category approach

12.3 Bioaccumulative potential

Castor oil, ethoxylated: No data available



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12.4 Mobility in soil No further relevant information available.

Castor oil, ethoxylated: No data available

12.5 Results of PBT and vPvB assessment

Results of PBT assessment

Castor oil, ethoxylated:

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

12.6 Other adverse effects

General advice

Castor oil, ethoxylated: None known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Can be incinerated, when in compliance with local regulations.

Contaminated packaging

Empty remaining contents.

Waste code of the European Union: EWC

A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. The waste code must be determined in agreement with the regional waste disposal authority or company.

14. TRANSPORT INFORMATION

This product is not classified as dangerous for transportation

15. REGULATORY INFORMATION

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

NATIONAL/OTHER REGULATIONS

Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

List entry in the directive: Directive 96/82/EC does not apply

NOTIFICATION STATUS

Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	listed (product or constituents are listed)
Japan. Kashin-Hou Law List	ENCS (JP)	listed (product or constituents are listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	listed (product or constituents are listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances	INV (CN)	listed (product or constituents are listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

16. OTHER INFORMATION

Source of key data used to compile the data sheet

Supplier information

Modifications from last revision

The Specification has been updated. The Safety Data Sheet remains the same.

Date: 16/03/2021

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