

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier

Product name:

REWOSOFT TE 19

Chemical name:

Blend based on di-(hydr. tallow fatty acid amidoethyl) amino polyethoxilate

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 : +49 2365 49 2232

Emergency : +49 2365 49 4423 (Fax)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified

2.2 Label Elements Not applicable

2.3 Other hazards None known.

SECTION 3: Composition/information on ingredients

Chemical name:

Blend based on di-(hydr. tallow fatty acid amidoethyl) amino polyethoxilate

3.2 Mixtures

General information: No hazardous ingredients.

SECTION 4: First aid measures

General: Remove contaminated clothing.

4.1 Description of first aid measures

Inhalation: No special measures required.

Skin Contact: In case of contact with skin wash off immediately with plenty of water
Consult a doctor if skin irritation persists.

Eye contact: In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist, seek medical advice.

Ingestion: Thoroughly clean the mouth with water Take medical treatment.

4.2 Most important symptoms and effects, both acute and delayed: The following symptoms may occur: - gastrointestinal complaints

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: If swallowed, flush stomach.

SECTION 5: Firefighting measures

General Fire Hazards: Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

5.1 Extinguishing media

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

Unsuitable extinguishing media: Full 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 - Nitrogen oxides (NOx)

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Forms slippery/greasy layers with water 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 discharge into the subsoil/soil. Do not allow to enter drains or waterways

6.3 Methods and material for containment and cleaning up:

Take up mechanically. Dilute residue with water and take up with absorbent material (eg sawdust, sand, 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:

Avoid contact with skin and eyes. No special measures necessary if stored and handled as prescribed.

7.2 Conditions for safe storage, including any incompatibilities:

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.

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 glasses

Hand Protection:

Additional Information: PVC gloves

Skin and Body Protection:

light protective clothing a protective ointment is recommended.

Respiratory Protection:

Protective mask

Hygiene measures:

Do not eat, drink or smoke when working.

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:	solid
Form:	Solidified mass
Color:	Yellow
Odor:	Characteristic
Odor Threshold:	not measured
pH:	approx. 9 (10 g/l, 20 °C)
Melting Point:	50 - 70 °C
Boiling Point:	not measured
Flash Point:	> 100 °C Solvent
Evaporation Rate:	not measured
Flammability (solid, gas):	no data available
Flammability Limit - Upper (%):	12.6 %(V) Solvent
Flammability Limit - Lower (%):	2.6 %(V) Solvent
Vapor pressure:	not measured
Vapor density (air=1):	not measured
Density:	approx. 0.94 g/cm ³ (60 °C) (DGF-C-IV-2)
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	(65 °C) Dispersible
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured
Self Ignition Temperature:	not measured
Decomposition Temperature:	not measured
Kinematic viscosity:	No data available.
Dynamic viscosity:	approx. 150 mPa.s (60 °C, Brookfield)

9.2 Other information

Explosive properties:	not measured
Oxidizing properties:	not measured
Minimum ignition temperature:	420 °C
Metal Corrosion:	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:	Unknown
10.5 Incompatible Materials:	Unknown
10.6 Hazardous Decomposition Products:	None with proper storage and handling.

SECTION 11: Toxicological information
Information on likely routes of exposure

Inhalation:	If handled correctly, not a 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.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: LD 50 (Rat): > 2,000 mg/kg (OECD Test Guideline 401)

Dermal

Product: no data available

Inhalation

Product: no data available

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation:

Product: non-irritant
OECD 404 (Rabbit): non-irritant Undiluted product

Serious Eye Damage/Eye Irritation:

Product: non-irritant
OECD 405 (Rabbit): non-irritant Undiluted product

Respiratory or Skin Sensitization:

Product: Did not cause sensitisation on laboratory animals.
, OECD 406 (according to Bühler) (Guinea Pig) non-sensitizing Tested as 20 % solution.

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Carcinogenicity

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 adverse effects:**

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

SECTION 12: Ecological information**12.1 Toxicity****Acute toxicity****Fish****Product:** LC 50 (Brachydanio rerio, 96 h): 33 mg/l (OECD 204)**Aquatic Invertebrates****Product:** EC 50 (Daphnia magna, 72 h): 10 - 32 mg/l**Toxicity to Aquatic Plants****Product:** EC 50 (Scenedesmus subspicatus, 72 h): > 2,000 mg/l (ISO 8692)**Toxicity to microorganisms****Product:** No data available.**Chronic Toxicity****Fish****Product:** No data available.**Aquatic Invertebrates****Product:** No data available.**Toxicity to Aquatic Plants****Product:****12.2 Persistence and Degradability****Biodegradation****Product:** No data available.**BOD/COD Ratio****Product:** No data available.**12.3 Bioaccumulative potential****Product:** No data available.

- 12.4 Mobility in soil:** No data available.
- 12.5 Results of PBT and vPvB assessment:** No data available.
- 12.6 Other adverse effects:** Do not allow the product to enter soil or water ways. The product is classified as extremely hazardous to waters (according to the German Regulation on the Classification of Substances Hazardous to Waters (WwSV)).

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 number**

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 Transport in bulk according to Annex II of Marpol and the IBC Code

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

SECTION 16: Other information

Abbreviations and acronyms

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

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

Wording of the H-statements in section 2 and 3: none

Training information: Comply with national laws regulating employee instruction.

SDS No.:

Disclaimer:

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.