

# SAFETY DATA SHEET (EC 1907/2006)

TEGO SORB B 80

Version: **3.0 / REG\_EU**  
Revision date: **22.08.2016**  
Issue date: 14.05.2014  
replaces version: 2.0  
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VA-No.

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

### 1.1. Product identifier

Trade name : TEGO SORB B 80  
Chemical Name : Mixture based on: Zinc ricinoleate with solvent agents

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

Relevant applications identified : Industrial Use  
Applications which are not advised : None known.

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

Company : Evonik Nutrition & Care GmbH  
Goldschmidtstr. 100  
D-45127 Essen  
Telephone : +49 (0)201 173-01  
Telefax : +49 (0)201 173-3000  
E-mail : [productsafety-cs@evonik.com](mailto:productsafety-cs@evonik.com)

### 1.4. Emergency telephone number

+49 (0)2365 49-2232 (TUIS - Interpreting service available)

+49 (0)2365 49-4423 (TUIS - Fax)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Acute toxicity (Oral)	Category 4	H302
Skin corrosion	Category 1B	H314
Serious eye damage	Category 1	H318
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 2	H411

### 2.2. Label elements

Constituent decisive for hazardous-substance labeling : Quaternary Ammonium Cmpds., benzyl-C12-C16-alkyl dimethyl chlorides; CAS-No.: 68424-85-1

Symbol(s) :



Signal word : Danger

hazard statement : H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.  
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statement (Prevention) : P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P273 - Avoid release to the environment.

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Precautionary Statement (Response) : P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.  
: P301 + P330 + P331 + P310 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.  
P302 + P352 + P310 - IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER or doctor/ physician.  
P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

## 2.3. Other hazards

none known.

## SECTION 3: Composition/information on ingredients

Mixture based on: Zinc ricinoleate with solvent agents

### 3.1. Substances

-

### 3.2. Mixtures

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

Chemical Name	CAS-No. EC-No. REACH-No.	Concentration	Classification
Quaternary Ammonium Cmpds., benzyl-C12-C16-alkyl dimethyl chlorides	68424-85-1 270-325-2 ---	>= 20 % - < 25 %	Acute Tox., 4 , H302, oral Skin Corr., 1B , H314 Eye Dam., 1 , H318 Aquatic Acute, 1 , H400 Aquatic Chronic, 1 , H410
Propanoic acid, 2-hydroxy	79-33-4 201-196-2 --- 01-2119474164-39	>= 5 % - < 10 %	Skin Irrit., 2 , H315 Eye Dam., 1 , H318
Ethane-1,2-diol	107-21-1 203-473-3 --- 01-2119456816-28	>= 1 % - < 10 %	Acute Tox., 4 , H302, oral STOT RE, 2 , H373, oral , Kidney

Texts of H phrases, see in Chapter 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General advice : Remove soiled or soaked clothing immediately  
Inhalation : If inhaled remove from side of exposure to fresh air, seek medical advice.  
Skin contact : In case of contact with skin wash off with soap and water.  
Immediate medical treatment.  
Eye contact : In case of contact with eyes rinse thoroughly with water.  
Summon a doctor immediately.  
Ingestion : drink large quantities of water, do not induce vomiting; consult a physician - show this data sheet.

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

Symptoms : No special hints.

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

Treat symptomatically.

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## SECTION 5: Firefighting measures

### 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)
- Hydrogen chloride (HCl)

Under certain conditions of combustion traces of other toxic substances cannot be excluded

### 5.3. Advice for firefighters

Do not inhale explosion and/or combustion gases

Use self-contained breathing apparatus and wear protective suit

Collect contaminated firefighting water separately, must not be discharged into the drains.

## SECTION 6: Accidental release measures

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

Use personal protective equipment.

Ensure adequate ventilation.

### 6.2. Environmental precautions

Do not allow to enter drains or waterways

Do not discharge into the 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

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Hygiene measures : Do not eat, drink or smoke when working.  
Remove soiled or soaked clothing immediately.  
Wash hands before breaks and after work.

General protective measures : Avoid contact with eyes and skin  
Do not inhale gases/vapours/aerosols.

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

#### Prevention of fire and explosion

Information : No special measures required.

#### Storage

Information : Keep only in original container.

Further information on storage conditions : Keep container tightly closed in a well-ventilated place  
Keep container dry  
Product is hygroscopic.  
Protect from freezing.

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German storage class : Combustible, corrosive hazardous materials

## 7.3. Specific end use(s)

No further recommendations.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

DNEL : **Ethane-1,2-diol**  
End Use: Workers  
Routes of exposure: Inhalation  
Possible health damage: Long-term systemic effects  
Dose: 35 mg/m<sup>3</sup>  
ECHA  
End Use: Workers  
Routes of exposure: Skin contact  
Possible health damage: Long-term systemic effects  
Dose: 106 mg/kg bodyweight/day  
ECHA  
End Use: Consumers  
Routes of exposure: Inhalation  
Possible health damage: Long-term systemic effects  
Dose: 7 mg/m<sup>3</sup>  
ECHA  
End Use: Consumers  
Routes of exposure: Skin contact  
Possible health damage: Long-term systemic effects  
Dose: 53 mg/kg bodyweight/day  
ECHA

PNEC : **Ethane-1,2-diol**  
Environmental compartment: Fresh water  
Dose: 10 mg/l  
Environmental compartment: Marine water  
Dose: 1 mg/l  
Environmental compartment: intermittent release  
Dose: 10 mg/l  
Environmental compartment: Wastewater treatment plant  
Dose: 199,5 mg/l  
Environmental compartment: Fresh water sediment  
Dose: 37 mg/kg dry weight  
Environmental compartment: Marine sediment  
Dose: 3,7 mg/kg dry weight  
Environmental compartment: Soil  
Dose: 1,53 mg/kg dry weight

### 8.2. Exposure controls

Eye protection : Protective goggles; wear additional face protection if risk is increased.  
Hand protection : Examples of suitable gloves are those made by the company Kächele-Cama Latex GmbH, Am Kreuzacker 9, D-36124 Eichenzell, e-mail [vertrieb@kcl.de](mailto:vertrieb@kcl.de), with subsequent specification (test according to EN374); specific workplace conditions must be separately taken into account.  
These recommendations apply only to the product mentioned in the material data

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safety sheet that we supply and the purpose that we indicate.

Glove material: gloves made of natural latex  
Break through time: 480 min  
Glove thickness: 1 mm

Glove material: gloves made of chloroprene (CR, e.g. Neoprene)  
Break through time: 480 min  
Glove thickness: 0,65 mm

Glove material: gloves made of nitril (NBR)  
Break through time: 480 min  
Glove thickness: 0,4 mm

Glove material: gloves made of butyl (IIR)  
Break through time: 480 min  
Glove thickness: 0,7 mm

Glove material: protective gloves made of fluorinated rubber (FKM, e.g. Viton)  
Break through time: 480 min  
Glove thickness: 0,7 mm

Body Protection : protective clothing  
Respiratory protection : in case of formation of vapours/aerosols:  
Short term: filter apparatus, combination filter A-P2

## SECTION 9: Physical and chemical properties

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

Physical state : liquid

Form : Liquid

Colour : light yellow

Odour : specific to the product

Odour Threshold : not measured

pH : 3 - 3,6 (20 °C)  
100 g/l

Melting point : Freezing point  
Remarks: not measured

Boiling point : Boiling temperature  
ca. 145 °C

Flash point : > 145 °C  
Method: DIN EN ISO 2719

Evaporation rate : not measured

Flammability : no data available

Upper Explosion/Ignition Limit : not measured

Lower explosion limit : not measured

Vapour pressure : not measured

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Relative vapour density	: not measured
Relative density	: No data available
Solubility(ies)	: not measured
Water solubility	: (20 °C) Remarks: miscible
Partition coefficient: n-octanol/water	: not measured
Autoignition temperature	: not measured
Thermal decomposition	: not measured
Viscosity, kinematic	: not measured
Viscosity, dynamic	: 130 mPa·s (23 °C) Method: DIN/ISO 6388
Explosive properties	: not measured
Oxidising properties	: not measured
Density	: 1,07 - 1,09 g/cm <sup>3</sup> (20 °C) Method: DIN 51757

## 9.2. Other information

## 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

Avoid contact with aluminium, brass, copper, strong oxidizers and anionic surfactants.

### 10.4. Conditions to avoid

No specific hazards are known.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

None with proper storage and handling.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Acute toxicity estimate

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Dose: ca. 1.396 mg/kg  
Method: Calculation method

Acute toxicity (inhalation)	: no data available
Acute toxicity (dermal)	: The results based on calculation as per chapter 3.1.3.6 Directive 1272/2008/EC are above the classification limits.
Irritation/corrosion of the skin	: no data available
Serious eye damage/ eye irritation	: no data available
Respiratory/skin sensitization	: no data available
Repeated dose toxicity	: no data available
<b>CMR assessment</b>	
Carcinogenicity	: No data available
Mutagenicity	: no data available
Teratogenicity	: No data available
Toxicity to reproduction	: No data available
Specific Target Organ Toxicity - Single exposure	: no data available
Specific Target Organ Toxicity - Repeated exposure	: no data available
Aspiration hazard	: No aspiration toxicity classification
Other information	: REGULATION (EC) No 1272/2008 Harmful if swallowed. Causes severe skin burns and eye damage.

## SECTION 12: Ecological information

### Ecotoxicology Assessment

Acute aquatic toxicity	: No data available
Chronic aquatic toxicity	: No data available

### 12.1. Toxicity

Aquatic toxicity, fish	: No data available
Aquatic toxicity, in vertebrates	: No data available
Aquatic toxicity, algae / aquatic plants	: No data available
Toxicity in microorganisms	: No data available

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chronic toxicity in fish : No data available

Chronic toxicity in aquatic Invertebrates : No data available

m-factor : Quaternary Ammonium Cmpds., benzyl-C12-C16-alkyl dimethyl chlorides  
Acute aquatic toxicity: 10  
Chronic aquatic toxicity: 1

## 12.2. Persistence and degradability

Photodegradation : No data available

Biological degradability : No data available

## 12.3. Bioaccumulative potential

Bioaccumulation : No data available

## 12.4. Mobility in soil

Environmental distribution : No data available

## 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment : No data available

## 12.6. Other adverse effects

General Information : The product is considered to be a water pollutant (German law).  
Do not allow to enter soil, waterways or waste water canal.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product : 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

### Transport on land (ADR/RID/GGVSEB)

14.1. UN number: UN 3265

14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Alkyl Dimethyl Benzyl Ammoniumchloride, quaternary ammonium compounds)

14.3. Transport hazard class(es): 8

14.4. Packing group: II

14.5. Environmental hazards: Yes

14.6. Special precautions for user: Yes

ADR: Tunnel Restriction Code: (E)

### Inland waterway transport (ADN/GGVSEB (Germany))

14.6. Special precautions for user: No



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## Air transport ICAO-TI/IATA-DGR

- 14.1. UN number: UN 3265  
14.2. UN proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Alkyl Dimethyl Benzyl Ammonium chloride, quaternary ammonium compounds)  
14.3. Transport hazard class(es): 8  
14.4. Packing group: II  
14.5. Environmental hazards: Yes  
14.6. Special precautions for user: No

## Sea transport IMDG-Code/GGVSee (Germany)

- 14.1. UN number: UN 3265  
14.2. UN proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Alkyl Dimethyl Benzyl Ammonium chloride, quaternary ammonium compounds)  
14.3. Transport hazard class(es): 8  
14.4. Packing group: II  
14.5. Environmental hazards (Marine pollutant): Yes  
14.6. Special precautions for user: Yes  
EmS: F-A,S-B  
Stowage category B - Clear of living quarters - Seg.Grp.: Acid  
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: for transport approval see regulatory information

## SECTION 15: Regulatory information

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

#### National legislation

Technical instructions on Air Quality : 5.2.5 (no class)

Major Accident Hazard Legislation : 9a

Water contaminating class (Germany) : water endangering  
Classification acc. to German law

Other regulations : Special local regulations must be adhered to when using products containing irritating or corrosive substances.  
BG Info Sheet M 050 "Activities Involving Hazardous Substances"  
Precautions to be observed for storage of hazardous substances: TRGS 510 "Storage of Hazardous Substances in Movable Containers".

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

### List of references

**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.**

Other information : Comply with national laws regulating employee instruction.

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## Classification and applied procedure to derive the classification of mixtures according to EU Regulation (EC) No. 1272/2008 (CLP)

Classification	Classification procedure
Acute Tox., 4 , H302	Calculation method
Skin Corr., 1B , H314	Calculation method
Eye Dam., 1 , H318	Calculation method
Aquatic Acute, 1 , H400	Calculation method
Aquatic Chronic, 2 , H411	Calculation method

### Relevant H phrases from chapter 3

H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H373 : May cause damage to organs through prolonged or repeated exposure if swallowed.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.  
H411 : Toxic to aquatic life with long lasting effects.

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

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## Legend

<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ADNR</b>	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BetrSichV</b>	German Ordinance on Industrial Safety and Health
<b>c.c.</b>	closed cup
<b>CAS</b>	Chemical Abstract Services
<b>CESIO</b>	European Committee of Organic Surfactants and their Intermediates
<b>ChemG</b>	German Chemicals Act
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>DIN</b>	German Institute for Standardization
<b>DMEL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>EC50</b>	half maximal effective concentration
<b>GefStoffV</b>	German Ordinance on Hazardous Substances
<b>GGVSEB</b>	German ordinance for road, rail and inland waterway transportation of dangerous goods
<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IMDG</b>	International Maritime Dangerous Goods
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>REACH</b>	REACH registration
<b>RID</b>	Convention concerning International Carriage by Rail
<b>STOT</b>	Specific Target Organ Toxicity
<b>SVHC</b>	Substances of Very High Concern
<b>TA</b>	Technical Instructions
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances
<b>VCI</b>	German chemical industry association
<b>vPvB</b>	very persistent, very bioaccumulative
<b>VOC</b>	volatile organic compounds
<b>VwVwS</b>	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
<b>WGK</b>	Water Hazard Class
<b>WHO</b>	World Health Organization