

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 01.03.2022

Version number 3 (replaces version 2)

Revision: 01.03.2022

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

#### 1.1 Product identifier

Trade name **GerMar-Sol**

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

No further relevant information available.

**Application of the substance / the mixture** Cleaner

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

**Manufacturer/Supplier:**

R&P Spezialprodukte

Reckenfelderstr. 53

D-48282 Emsdetten

Tel.: +49 (0) 257284974

E-Mail: [info@spezialprodukte.net](mailto:info@spezialprodukte.net)

**Informing department:** Product safety department

**1.4 Emergency telephone number:** Product safety department

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

Skin Irrit. 2        H315 Causes skin irritation.

Eye Dam. 1        H318 Causes serious eye damage.

Aquatic Chronic 3    H412 Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**



GHS05

**Signal word** Danger

**Hazard-determining components of labelling:**

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine

Alcohol, iso-C13, ethoxylated (7-14 EO)

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)

**Hazard statements**

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P280                Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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P302+P352 *IF ON SKIN: Wash with plenty of water.*

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/doctor.*

P332+P313 *If skin irritation occurs: Get medical advice/attention.*

P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

#### 2.3 Other hazards

##### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Description:** Mixture of the substances listed below with harmless additions (aqueous solution).

#### Dangerous components:

EC number: 939-464-2 Reg.nr.: 01-2119971970-28	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine ⚠ Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412 Specific concentration limits: Skin Corr. 1C; H314: C ≥ 50 % Skin Irrit. 2; H315: 1 % ≤ C < 50 %	10-25%
CAS: 68439-49-6 Polymer	Alcohols, C16-18, ethoxylated, ≥15 EO ⚠ Eye Irrit. 2, H319	<2.5%
CAS: 9043-30-5 Polymer	Alcohol, iso-C13, ethoxylated (7-14 EO) Alternative CAS number: 69011-36-5 ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	<2.5%
EC number: 931-329-6 Reg.nr.: 01-2119490100-53	Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl) ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315	<2.5%

#### SVHC

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

#### Regulation (EC) No 648/2004 on detergents / Labelling for contents

anionic surfactants, non-ionic surfactants

≥5 - <15%

**Additional information** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General advice:** Instantly remove any clothing soiled by the product.

**After inhalation** Supply fresh air; consult doctor in case of symptoms.

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**After skin contact**

Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.

**After eye contact**

Rinse immediately opened eye for several minutes under running water. Then consult doctor.

**After swallowing** Do not induce vomiting; instantly call for medical help.

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

No further relevant information available.

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

No further relevant information available.

## SECTION 5: Firefighting measures

**5.1 Extinguishing media****Suitable extinguishing agents**

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

**For safety reasons unsuitable extinguishing agents** Water with a full water jet.

**5.2 Special hazards arising from the substance or mixture**

Can be released in case of fire:

carbon oxides (CO<sub>x</sub>)

sulphur oxides (SO<sub>x</sub>)

organic decomposition products

**5.3 Advice for firefighters****Protective equipment:**

See section 8.

Wear full protective suit with self-contained breathing apparatus.

**Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Endangered containers in the surrounding area should be cooled with a water-hose.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment and keep unprotected persons away.

**6.2 Environmental precautions:**

Dilute with much water.

Do not allow to enter drainage system, surface or ground water.

If large amounts are released, the authorities must be informed.

**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Contaminated material has to be disposed as waste (see item 13).

**6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

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### SECTION 7: Handling and storage

**7.1 Precautions for safe handling** No special precautions necessary if used correctly.

**Information about protection against explosions and fires:**

Pay attention to general rules of internal fire prevention.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed. Store in cool, dry conditions.

**Requirements to be met by storerooms and containers:**

Observe official regulations on storage and handling of water hazardous substances

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Keep container tightly sealed.

**7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

**Components with critical values that require monitoring at the workplace:**

##### DNELs

##### Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine

Oral	DNEL (population)	0.58 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (worker)	5.29 mg/kg bw/day (Long-term - systemic effects)
	DNEL (population)	1.2 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (worker)	4.1 mg/m <sup>3</sup> (Long-term - systemic effects)
	DNEL (population)	1.01 mg/m <sup>3</sup> (Long-term - systemic effects)

##### PNECs

##### Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine

PNEC aqua	0.268 mg/l (fresh water)
	0.0268 mg/l (marine water)
PNEC	7 mg/l (STP (sewage treatment plant))
PNEC	35 mg/kg dw (soil)
PNEC sediment	8.1 mg/kg dw (marine water)
PNEC sediment	8.1 mg/kg (fresh water)

**Additional information:** The lists that were valid during the compilation were used as basis.

#### 8.2 Exposure controls

**Appropriate engineering controls** No further data; see item 7.

**Individual protection measures, such as personal protective equipment**

**General protective and hygienic measures**

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

**Breathing equipment:** Not necessary if room is well-ventilated.

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**Hand protection**

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye/face protection** Tightly sealed safety glasses.

**Body protection:**

Standard protective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear impenetrable protective clothing against this solvent.

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties****General Information****Physical state**

Fluid

**Colour:**

Yellow

**Smell:**

Recognisable

**Odour threshold:**

Not determined.

**Melting point/freezing point:**

Not determined

**Boiling point or initial boiling point and boiling range**

100 °C

**Flammability**

Not applicable.

**Lower and upper explosion limit****Lower:**

Not determined.

**Upper:**

Not determined.

**Flash point:**

Product is non-flammable nor potentially explosive

**Decomposition temperature:**

Not determined.

**pH at 20 °C**

6-8

**pH-value:****Viscosity:****Kinematic viscosity**

Not determined.

**dynamic:**

Not determined.

**Solubility****Water:**

Fully miscible

**Partition coefficient n-octanol/water (log value)**

Not determined.

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<b>Vapour pressure at 20 °C:</b>	23 hPa
<b>Density and/or relative density</b>	
<b>Density at 20 °C</b>	1.026 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.

**9.2 Other information****Appearance:****Form:** Fluid**Important information on protection of health and environment, and on safety.****Self-inflammability:** Product is not selfigniting.**Explosive properties:** Product is not potentially explosive**Change in condition****Evaporation rate** Not determined.**Information with regard to physical hazard classes****Explosives** Void**Flammable gases** Void**Aerosols** Void**Oxidising gases** Void**Gases under pressure** Void**Flammable liquids** Void**Flammable solids** Void**Self-reactive substances and mixtures** Void**Pyrophoric liquids** Void**Pyrophoric solids** Void**Self-heating substances and mixtures** Void**Substances and mixtures, which emit flammable gases in contact with water** Void**Oxidising liquids** Void**Oxidising solids** Void**Organic peroxides** Void**Corrosive to metals** Void**Desensitised explosives** Void**SECTION 10: Stability and reactivity****10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions** No dangerous reactions known**10.4 Conditions to avoid** No further relevant information available.**10.5 Incompatible materials:**

strong oxidizing agents

Strong acids

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**10.6 Hazardous decomposition products:**

Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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

**LD/LC50 values that are relevant for classification:****ATE (Acute Toxicity Estimates)**

Oral	LD50	27,778 mg/kg (rat)
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**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

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

**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.

**11.2 Information on other hazards****Endocrine disrupting properties**

Not all ingredients are listed

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with triethanolamine**

LC 50 / 96 h	>1-10 mg/l (Brachydanio rerio)
EC 50 / 48 h	>10-100 mg/l (Daphnia magna)
EC 50 / 72 h	>10-100 mg/l (Desmodesmus subspicatus)
NOEC	1 mg/l (Lepomis macrochirus) (28 d)
	2.8 mg/l (Daphnia magna) (21 d)

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

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#### 12.7 Other adverse effects

##### Additional ecological information:

##### General notes:

The surfactant(s) contained in this preparation complies(comply) 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.

Water hazard class 2 (Self-assessment): hazardous for water according to german AwsV.

Do not allow product to reach ground water, water bodies or sewage system.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.

##### Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

##### Waste disposal key number:

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

**Uncleaned packagings:** Disposal must be made according to official regulations.

##### Recommendation:

After complete emptying and cleaning, send to be reconditioned or recycled.

Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.

Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

**Recommended cleaning agent:** Water, if necessary with cleaning agent.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR, IMDG, IATA

Void

#### 14.2 UN proper shipping name

ADR, IMDG, IATA

Void

#### 14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class

Void

#### 14.4 Packing group

ADR, IMDG, IATA

Void

#### 14.5 Environmental hazards:

Not applicable.

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<b>Marine pollutant:</b>	No
<b>14.6 Special precautions for user</b>	Not applicable.
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
<b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
<b>UN "Model Regulation":</b>	Void

### SECTION 15: Regulatory information

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

##### **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

##### **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

##### **Philippines Inventory of Chemicals and Chemical Substances (PICCS)**

All ingredients are listed.

##### **Chinese Chemical Inventory of Existing Chemical Substances (IECSC)**

All ingredients are listed.

##### **Australian Inventory of Industrial Chemicals (AIIC)**

All ingredients are listed.

##### **Korean Existing Chemical Inventory (KECI)**

All ingredients are listed.

##### **New Zealand Inventory of Chemicals (NZIoC)**

All ingredients are listed.

##### **Taiwan Chemical Substance Inventory (TCSI)**

All ingredients are listed.

##### **Japan - Existing Chemical Substances (ENCS)**

All ingredients are listed.

##### **Directive 2012/18/EU**

**Named dangerous substances - ANNEX I (12. BImSchV) Not all ingredients are listed**  
**REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3**

##### **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

Not all ingredients are listed

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**REGULATION (EU) 2019/1148****Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Not all ingredients are listed

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

Not all ingredients are listed

**Regulation (EC) No 273/2004 on drug precursors**

Not all ingredients are listed

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

Not all ingredients are listed

**National regulations****Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

**Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Registration-Number****Relevant phrases**

Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

**Department issuing data specification sheet:** see item 1: Informing department**Version number of previous version:** 2**Abbreviations and acronyms:**

LEV: Local Exhaust Ventilation

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC and RCR= Estimated Exposition/DNEL)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

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*PNEC: Predicted No-Effect Concentration (REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**SVHC: Substance of Very High Concern**SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Acute Tox. 4: Acute toxicity – Category 4**Skin Corr. 1C: Skin corrosion/irritation – Category 1C**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*

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