

# Safety data sheet

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

Printing date 27.11.2014

Version number 2

Revision: 27.11.2014

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

- **1.1 Product identifier**
- **Trade name: Polysol SL**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Application of the substance / the mixture**  
Dry-cleaning  
Pre-brushing agent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
SEITZ GmbH  
Gutenbergstrasse 3  
65830 Kriftel / Germany  
Tel. + 49(0) 6192-9948-0  
Fax + 49(0) 6192-9948-99  
msds@seitz24.com  
www.seitz24.com
- **Further information obtainable from:** msds@seitz24.com
- **1.4 Emergency telephone number:**  
GIZ-Nord, Göttingen, Germany + 49 551 19240  
(Member of EPECS Network)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R38-41: Irritating to skin. Risk of serious damage to eyes.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.

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- **Hazard pictograms**



GHS05 GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**

benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., potassium salts  
 Hydrocarbons, C11-C14, isoalkanes, cyclics, < 2% aromatics  
 isotridecanol, ethoxylated  
 isotridecanol, ethoxylated

- **Hazard statements**

H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H304 May be fatal if swallowed and enters airways.

- **Precautionary statements**

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

- **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**

- **Dangerous components:**

|  |   |          |
|--|---|----------|
| EC number: 927-285-2<br>Reg.nr.: 01-2119480162-45-xxxx                 | Hydrocarbons, C11-C14, isoalkanes, cyclics, < 2% aromatics<br>Xn R65<br>R66<br>Asp. Tox. 1, H304                        | 25 - 50% |
| CAS: 84961-78-4<br>EINECS: 284-669-6<br>Reg.nr.: Not applicable*       | benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., potassium salts<br>Xi R38-41<br>Eye Dam. 1, H318; Skin Irrit. 2, H315 | < 25%    |
| CAS: 34590-94-8<br>EINECS: 252-104-2<br>Reg.nr.: 01-2119450011-60-xxxx | (2-methoxymethylethoxy)propanol<br>substance with a Community workplace exposure limit                                  | < 20%    |
| CAS: 69011-36-5<br>NLP: 500-241-6<br>Reg.nr.: 01-2119976362-32-xxxx    | isotridecanol, ethoxylated<br>Xi R38-41<br>Eye Dam. 1, H318; Skin Irrit. 2, H315; Aquatic Chronic 3, H412               | < 10%    |
| CAS: 69011-36-5<br>Polymer   | isotridecanol, ethoxylated<br>Xi R41<br>Eye Dam. 1, H318; Aquatic Chronic 3, H412                                       | < 5%     |

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#### · Regulation (EC) No 648/2004 - Labelling for contents

|                        |          |
|------------------------|----------|
| aliphatic hydrocarbons | ≥ 30%    |
| anionic surfactants    | 15 - 30% |
| non-ionic surfactants  | 5 - 15%  |
| perfumes (D-LIMONENE)  |          |

#### · Additional information

For the wording of the listed risk phrases refer to section 16.

This product is an ionic mixture.

For purpose of classification and labelling, the calculation based on the hazardous salts are potentially present in the mixture.

\*exempted according to REACH Article 2(7) and Annex V. Each starting material of the ionic mixture is registered, as required.

Note: under REACH there is no legal requirement to provide justification for absence of Registration number. This is provided for clarity and consistency reasons.

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

· **General information** Immediately remove any clothing soiled by the product.

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

#### · After skin contact

Immediately rinse with water.

If skin irritation continues, consult a doctor.

#### · After eye contact

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

#### · After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

#### · 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>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

#### · 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

#### · 5.3 Advice for firefighters

#### · Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

#### · Additional information

Cool endangered receptacles with water spray.

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

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### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Do not breathe gases/ vapours.  
Avoid contact with skin and eyes.  
Keep away from ignition sources
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Avoid contact with eyes and skin.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**  
Protect from heat and direct sunlight.  
Store in cool, dry conditions in well sealed receptacles.  
Store receptacle in a well ventilated area.  
Protect from frost.  
Time of storage: max. 18 month
- **7.3 Specific end use(s)** Dry-cleaning

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

|   |   |
|---|---|
| <b>34590-94-8 (2-methoxymethylethoxy)propanol</b> |   |
| WEL   | Long-term value: 308 mg/m <sup>3</sup> , 50 ppm |
| Sk  |   |

- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment**

- **General protective and hygienic measures**

The usual precautionary measures are to be adhered to when handling chemicals.

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Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Do not inhale gases / vapours / aerosols.

• **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation (exceeding the workplace limit values, formation of aerosols).

Combination filter A-P2

• **Protection of hands:**

Protective gloves.

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

• **Material of gloves**

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.

• **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.4$  mm

• **Eye protection:** Tightly sealed goggles.

• **Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

• **9.1 Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

Form:

Fluid

Colour:

Light yellow

• **Odour:**

Product specific

• **Odour threshold:**

No further relevant information available.

• **pH-value (100 g/l) at 20 °C:**

~ 7.1

• **Change in condition**

Melting point/Melting range:

not applicable

Boiling point/Boiling range:

undetermined

• **Flash point:**

> 95 °C (EN 22719)

• **Flammability (solid, gaseous)**

No further relevant information available.

• **Ignition temperature:**

No further relevant information available.

• **Decomposition temperature:**

No further relevant information available.

• **Self-igniting:**

Product is not selfigniting.

• **Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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|   |  |
|---|--|
| · <b>Explosion limits:</b>                          |  |
| <b>Lower:</b>                                       | No further relevant information available. |
| <b>Upper:</b>                                       | No further relevant information available. |
| · <b>Oxidising properties</b>                       | No further relevant information available. |
| · <b>Vapour pressure:</b>                           | No further relevant information available. |
| · <b>Density at 20 °C:</b>                          | ~ 0.93 g/cm <sup>3</sup> (ISO 2811)        |
| · <b>Relative density</b>                           | No further relevant information available. |
| · <b>Vapour density</b>                             | No further relevant information available. |
| · <b>Evaporation rate</b>                           | No further relevant information available. |
| · <b>Solubility in / Miscibility with Water:</b>    | Fully miscible                             |
| · <b>Segregation coefficient (n-octanol/water):</b> | Not determined.                            |
| · <b>Viscosity:</b>                                 |  |
| <b>dynamic:</b>                                     | No further relevant information available. |
| <b>kinematic at 40 °C:</b>                          | < 20.5 mm <sup>2</sup> /s                  |
| · <b>9.2 Other information</b>                      | No further relevant information available. |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**  
Stable under normal ambient conditions.  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** None if used as directed.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Strong oxidizing agents
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

#### Hydrocarbons, C11-C14, isoalkanes, cyclics, < 2% aromatics

|            |      |                       |
|------------|------|-----------------------|
| Oral       | LD50 | > 5000 mg/kg (rat)    |
| Dermal     | LD50 | > 5000 mg/kg (rabbit) |
| Inhalative | LC50 | > 5 mg/l (rat)        |

#### 84961-78-4 benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., potassium salts

|      |      |                  |
|------|------|------------------|
| Oral | LD50 | 2550 mg/kg (rat) |
|------|------|------------------|

#### 34590-94-8 (2-methoxymethylethoxy)propanol

|            |           |                     |
|------------|-----------|---------------------|
| Oral       | LD50      | > 5000 mg/kg (rat)  |
| Dermal     | LD50      | 9500 mg/kg (rabbit) |
| Inhalative | LC50 (7h) | > 500 mg/l (rat)    |

#### 69011-36-5 isotridecanol, ethoxylated

|            |      |                                      |
|------------|------|--------------------------------------|
| Oral       | LD50 | > 5000 mg/kg (rat) (OECD 401)        |
| Dermal     | LD50 | > 2000 - 5000 mg/kg (rat) (OECD 402) |
| Inhalative | LC50 | 1.6 mg/l (rat) (4 h; OECD 403)       |

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**69011-36-5 isotridecanol, ethoxylated**

|        |      |                       |
|--------|------|-----------------------|
| Oral   | LD50 | > 2000 mg/kg (rat)    |
| Dermal | LD50 | > 2000 mg/kg (rabbit) |

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitisation:** No sensitising effects known.
- **Repeated dose toxicity** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
No further relevant information available.

**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****Hydrocarbons, C11-C14, isoalkanes, cyclics, < 2% aromatics**

|            |                                     |
|------------|-------------------------------------|
| EC50 (48h) | > 1000 mg/l (Aquatic invertebrates) |
| EC50 (72h) | > 1000 mg/l (Aquatic plants, algae) |
| LC50 (96h) | > 1000 mg/l (Fish)                  |

**34590-94-8 (2-methoxymethylethoxy)propanol**

|      |   |
|------|---|
| EC50 | > 969 mg/l (Aquatic plants, algae) (96 h; Scenedesmus capricornutum)<br>1919 mg/l (Aquatic invertebrates) (48 h; Daphnia) |
| LC50 | > 10000 mg/l (Fish) (96 h; Pimephales promelas)   |

**69011-36-5 isotridecanol, ethoxylated**

|      |  |
|------|--|
| EC20 | 0.979 mg/l (Aquatic plants, algae) (Desmodesmus subspicatus; 72 h; QSAR)<br>1.097 mg/l (Fish) (Pimephales promelas; 30 d; QSAR)<br>0.74 mg/l (Aquatic invertebrates) (Daphnia magna; 21 d; QSAR) |
| EC50 | 140 mg/l (Bacteria) (Belebschlamm; 3 h)  |
| LC50 | > 1 - 10 mg/l (Fish) (Brachydanio rerio; 96 h; OECD 203)   |

**69011-36-5 isotridecanol, ethoxylated**

|            |   |
|------------|---|
| EC50 (48h) | > 1 - 10 mg/l (Aquatic invertebrates) (Daphnia magna)           |
| EC50 (72h) | > 1 - 10 mg/l (Aquatic plants, algae) (Desmodesmus subspicatus) |
| LC50 (96h) | > 1 - 10 mg/l (Fish) (OECD 203)                                 |
| NOEC       | 0.37 mg/l (Aquatic invertebrates) (21 d, Daphnia magna)         |

- **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.

· **Additional ecological information:**· **General notes:**

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

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.

· **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Disposal must be made according to official regulations.
- **Waste disposal key:**  
The assignment of waste codes in accordance with European Waste Catalogue (EWC) is trade- and process-specific and has to be made in compliance with national and local regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |   |  |
|---|--|
| · <b>14.1 UN-Number</b><br>· <b>ADR, ADN, IMDG, IATA</b>                                    | Void   |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR, ADN, IMDG, IATA</b>                      | Void   |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR, ADN, IMDG, IATA</b><br>· <b>Class</b> | Void   |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>                                     | Void   |
| · <b>14.5 Environmental hazards:</b>  | Not applicable.                                      |
| · <b>14.6 Special precautions for user</b>  | Not applicable.                                      |
| · <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>       | Not applicable.                                      |
| · <b>Transport/Additional information:</b>  | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>   | -  |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Other regulations, limitations and prohibitive regulations**
- **Other information:** Product is for professional use only.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

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R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

**• Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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 Harmonised System of Classification and Labelling of Chemicals

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

**• \* Data compared to the previous version altered.**

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