

## Safety data sheet

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

Printing date 18.10.2016

Version number 4

Revision: 18.10.2016

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

- **1.1 Product identifier**
- **Trade name: Purasol**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Life cycle stages** PW Widespread use by professional workers
- **Sector of Use**  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Application of the substance / the mixture**  
Dry-cleaning  
Spotting agent, stain remover
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
SEITZ GmbH  
Gutenbergstrasse 1 - 3  
65830 Kriftel / Germany  
Tel. + 49(0) 6192-9948-0  
Fax + 49(0) 6192-9948-99  
order@seitz24.com  
www.seitz24.com
- **Further information obtainable from:** sds@seitz24.com
- **1.4 Emergency telephone number:**  
GIZ-Nord, Göttingen, Germany + 49 551 19240  
(Member of EPECS)

### SECTION 2: Hazards identification

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



GHS02 flame

Flam. Liq. 3          H226 Flammable liquid and vapour.



GHS05 corrosion

Eye Dam. 1          H318 Causes serious eye damage.



GHS07

Skin Irrit. 2          H315 Causes skin irritation.

STOT SE 3          H336 May cause drowsiness or dizziness.

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.

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**· Hazard pictograms**


GHS02 GHS05 GHS07

**· Signal word** Danger

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

cyclohexanone

n-butyl acetate

**· Hazard statements**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

**· Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves / eye protection.

P261 Avoid breathing mist/vapours/spray.

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.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**· 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:**

|  |  |           |
|--|--|-----------|
| CAS: 123-86-4<br>EINECS: 204-658-1<br>Reg.nr.: 01-2119485493-29-xxxx | n-butyl acetate<br>Flam. Liq. 3, H226; STOT SE 3, H336   | 50 - 100% |
| CAS: 108-94-1<br>EINECS: 203-631-1<br>Reg.nr.: 01-2119453616-35-xxxx | cyclohexanone<br>Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315 | < 15%     |
| EC number: 918-668-5<br>Reg.nr.: 01-2119455851-35-xxxx               | Hydrocarbons, C 9, aromatics<br>Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336                   | < 10%     |

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

|                       |         |
|-----------------------|---------|
| aromatic hydrocarbons | 5 - 15% |
|-----------------------|---------|

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- **Additional information**

EG 918-668-5; CAS 64742-95-6; Note P :

The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

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 information**

Remove casualties from exposure.

Keep unprotected persons away.

Immediately remove any clothing soiled by the product.

- **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact**

Immediately wash with water and soap and rinse thoroughly.

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**

Eye damage

Skin irritation

Headache

Dizziness

Nausea

Unconsciousness

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

Symptomatic treatment

### 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.

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

### SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

Avoid contact with skin and eyes.

Keep away from ignition sources

Ensure adequate ventilation

Do not breathe gases/ vapours.

- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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

Absorb with liquid-binding material (sand, diatomite)

Send for recovery or disposal in suitable receptacles.

- **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 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.

Avoid contact with eyes and skin.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Prevent formation of aerosols.

- **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Formation of explosive vapour- / air mixture possible.

Protect against electrostatic charges.

Flammable gas-air mixtures may form in empty receptacles.

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

- **Storage**

- **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Prevent any seepage into the ground.

- **Information about storage in one common storage facility:**

Store away from foodstuffs.

Do not store together with alkalis (caustic solutions).

Store away from oxidising agents.

- **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. 24 month

- **7.3 Specific end use(s)** Dry-cleaning

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### 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>CAS: 123-86-4 n-butyl acetate</b> |   |
| WEL                                  | Short-term value: 966 mg/m <sup>3</sup> , 200 ppm<br>Long-term value: 724 mg/m <sup>3</sup> , 150 ppm         |
| <b>CAS: 108-94-1 cyclohexanone</b>   |   |
| WEL                                  | Short-term value: 82 mg/m <sup>3</sup> , 20 ppm<br>Long-term value: 41 mg/m <sup>3</sup> , 10 ppm<br>Sk, BMGV |

- **Regulatory information** WEL: EH40/2011

- **Ingredients with biological limit values:**

|                                    |  |
|------------------------------------|--|
| <b>CAS: 108-94-1 cyclohexanone</b> |  |
| BMGV                               | 2 mmol/mol creatinine<br>Medium: urine<br>Sampling time: post shift<br>Parameter: cyclohexanol |

- **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.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

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

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale gases / vapours / aerosols.

- **Respiratory protection:**

Ensure good ventilation/exhaustion at the workplace.

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

Filter A/P2.

Combination filter ABEK-P2

- **Protection of hands:**

Solvent resistant gloves

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

- **Material of gloves**

PE/EVAL/PE

Butyl rubber, BR

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.

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- **Penetration time of glove material**  
The exact break trough 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:**  
PE/EVAL/PE  
Recommended thickness of the material:  $\geq 0.4$  mm
- **Eye protection:** Tightly sealed goggles.
- **Body protection:** Solvent resistant protective clothing

### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Appearance:

|                    |  |
|--------------------|--|
| Form:              | Fluid                                      |
| Colour:            | Colourless                                 |
| · Odour:           | Solvent-like                               |
| · Odour threshold: | No further relevant information available. |

· pH-value: Not applicable.

##### · Change in condition

|                              |              |
|------------------------------|--------------|
| Melting point/Melting range: | undetermined |
| Boiling point/Boiling range: | undetermined |

· Flash point: 30 °C (EN 22719)

· Flammability (solid, gaseous) No further relevant information available.

· Ignition temperature: Not determined.

· 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.

##### · Explosion limits:

|        |  |
|--------|--|
| Lower: | No further relevant information available. |
| Upper: | No further relevant information available. |

· Oxidising properties No further relevant information available.

· Vapour pressure: No further relevant information available.

· Density at 20 °C: ~ 0.89 g/cm<sup>3</sup> (ISO 2811)

· Relative density No further relevant information available.

· Vapour density No further relevant information available.

· Evaporation rate No further relevant information available.

##### · Solubility in / Miscibility with

Water: Not miscible or difficult to mix

· Segregation coefficient (n-octanol/water): No further relevant information available.

##### · Viscosity:

dynamic: No further relevant information available.

kinematic: No further relevant information available.

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**· 9.2 Other information**

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** Forms flammable gases / fumes
- **10.4 Conditions to avoid**  
Protect from heat and direct sunlight.  
Keep away from ignition sources
- **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** Based on available data, the classification criteria are not met.

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

**CAS: 123-86-4 n-butyl acetate**

|        |      |                                   |
|--------|------|-----------------------------------|
| Oral   | LD50 | 10760 mg/kg (rat) (OECD 423)      |
| Dermal | LD50 | > 14112 mg/kg (rabbit) (OECD 402) |

**CAS: 108-94-1 cyclohexanone**

|            |           |                    |
|------------|-----------|--------------------|
| Oral       | LD50      | > 1890 mg/kg (rat) |
| Dermal     | LD50      | 1100 mg/kg (ATE)   |
| Inhalative | LC50 (4h) | 11 mg/l (ATE)      |

**Hydrocarbons, C 9, aromatics**

|        |      |                                  |
|--------|------|----------------------------------|
| Oral   | LD50 | 3592 mg/kg (rat) (OECD 401)      |
| Dermal | LD50 | > 3160 mg/kg (rabbit) (OECD 402) |

- **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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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**  
May cause drowsiness or dizziness.
- **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.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Aquatic toxicity:

##### CAS: 123-86-4 n-butyl acetate

|      |   |
|------|---|
| EC50 | 647.7 mg/l (Aquatic plants, algae) (Desmodesmus subspicatus; 72h)<br>44 mg/l (Aquatic invertebrates) (Daphnia magna; 48h) |
| LC50 | 18 mg/l (Fish) (Pimephales promelas; 96h; OECD 203)   |
| NOEC | 200 mg/l (Aquatic plants, algae) (Desmodesmus subspicatus)  |

##### CAS: 108-94-1 cyclohexanone

|      |   |
|------|---|
| EC50 | 820 mg/l (Aquatic invertebrates) (Daphnia magna; 24 h)            |
| LC50 | 527 mg/l (Fish) (Pimephales promelas; 96 h)                       |
| EC5  | 192 mg/l (Aquatic plants, algae) (Scenedesmus quadricauda; 192 h) |

##### Hydrocarbons, C 9, aromatics

|      |  |
|------|--|
| EL50 | 2.6 - 2.9 mg/l (Aquatic plants, algae) (72 h; Pseudokirchneriella subcapitata)<br>3.2 mg/l (Aquatic invertebrates) (48 h; Daphnia magna; OECD 202) |
| LL50 | 9.2 mg/l (Fish) (96 h; Oncorhynchus mykiss)  |

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, even in small quantities.

The product contains materials that are harmful to the environment.

##### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Recommendation

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

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:

Packagings that may not be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

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### SECTION 14: Transport information

|   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· 14.1 UN-Number</li> <li>· ADR, IMDG, IATA</li> </ul>   | UN1993  |
| <ul style="list-style-type: none"> <li>· 14.2 UN proper shipping name</li> <li>· ADR</li> <li>· IMDG, IATA</li> </ul>   | 1993 FLAMMABLE LIQUID, N.O.S. (BUTYL ACETATES, Hydrocarbons, C 9, aromatics)<br>FLAMMABLE LIQUID, N.O.S. (BUTYL ACETATES, Hydrocarbons, C 9, aromatics) |
| <ul style="list-style-type: none"> <li>· 14.3 Transport hazard class(es)</li> <li>· ADR</li> </ul>  | <div style="text-align: center;">  </div>                              |
| <ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>  | 3 (F1) Flammable liquids.<br>3  |
| <ul style="list-style-type: none"> <li>· IMDG, IATA</li> </ul>  | <div style="text-align: center;">  </div>                            |
| <ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>  | 3 Flammable liquids.<br>3   |
| <ul style="list-style-type: none"> <li>· 14.4 Packing group</li> <li>· ADR, IMDG, IATA</li> </ul>   | III   |
| <ul style="list-style-type: none"> <li>· 14.5 Environmental hazards:</li> </ul>   | Not applicable.   |
| <ul style="list-style-type: none"> <li>· 14.6 Special precautions for user</li> <li>· Danger code (Kemler):</li> <li>· EMS Number:</li> <li>· Stowage Category</li> </ul> | Warning: Flammable liquids.<br>30<br>F-E, <u>S-E</u><br>A   |
| <ul style="list-style-type: none"> <li>· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</li> </ul>   | Not applicable.   |
| <ul style="list-style-type: none"> <li>· Transport/Additional information:</li> </ul>   |   |
| <ul style="list-style-type: none"> <li>· ADR</li> <li>· Limited quantities (LQ)</li> <li>· Excepted quantities (EQ)</li> </ul>  | 5L<br>Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml                                  |
| <ul style="list-style-type: none"> <li>· Transport category</li> <li>· Tunnel restriction code</li> </ul>   | 3<br>D/E  |
| <ul style="list-style-type: none"> <li>· IMDG</li> <li>· Limited quantities (LQ)</li> </ul>   | 5L  |

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- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>Excepted quantities (EQ)</b></li> </ul> | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>   | UN 1993 FLAMMABLE LIQUID, N.O.S. (BUTYL ACETATES, HYDROCARBONS, C 9, AROMATICS), 3, III                          |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations**
- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

- **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**  
 H226 Flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H411 Toxic to aquatic life with long lasting effects.

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

Classification of mixtures based on ingredients of the mixture, applying calculation method of assessing health and environmental hazards

- **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

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PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Asp. Tox. 1: Aspiration hazard – Category 1  
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

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

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