

**Profisep 2010**
**SECTION 1: Identification of the substance / mixture and Company**

- 1.1 Identification of the substance or preparation:**  
**Commercial product name:** Profisep 2010
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
**Use of the substance / the mixture:** Separating agent
- 1.3 Company / Manufacturer:** SILADENT Dr. Böhme & Schöps GmbH  
 Street / mailbox: Im Klei 26  
 Country code. / postal code / city: D - 38644 Goslar  
 Phone: +49 (0) 53 21 / 37 79 - 0  
 Fax: +49 (0) 53 21 / 38 96 32  
 E-mail / Website: [info@siladent.de](mailto:info@siladent.de) / [www.siladent.de](http://www.siladent.de)  
 Further information obtainable from: SILADENT Dr. Böhme & Schöps GmbH
- 1.4 Emergency telephone number:**  
 SILADENT Dr. Böhme & Schöps GmbH: +49 (0) 53 21 / 37 79 - 0 (Mon-Fri. 8 a.m. – 4 p.m.)

**SECTION 2: Hazards Identification**
**2.1 Classification of the substance or mixture**
**Classification according to Regulation (EC) No 1272/2008**


GHS02 flame  
 Flam. Liq. 2      H225 Highly flammable liquid and vapour.



GHS08 health hazard  
 Asp. Tox. 1      H304 May be fatal if swallowed and enters airways.



GHS09 environment  
 Aquatic Acute 1      H400 Very toxic to aquatic life.  
 Aquatic Chronic 1      H410 Very toxic to aquatic life with long lasting effects.



GHS07  
 Skin Irrit. 2      H315 Causes skin irritation.  
 Eye Irrit. 2      H319 Causes serious eye irritation.  
 STOT SE 3      H336 May cause drowsiness or dizziness.  
 Classification according to Directive 67/548/EEC or Directive 1999/45/EC

**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:**

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GHS02 GHS07 GHS08 GHS09

**Signal word:** Hazard**Hazard-determining components of labelling:** Heptane, propan-2-ol  
Cyclohexane, methylcyclohexane**Hazard statements**

H225 Highly flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.  
 H304 May be fatal if swallowed and enters airways.  
 H410 Very toxic 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.  
 P261 Avoid breathing mist/vapours/spray.  
 P280 Wear protective gloves / eye protection.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P331 Do NOT induce vomiting.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 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 Chemical characterization:** Mixture.**Description:** Mixture of substances listed below with non-hazardous additions.**Hazardous ingredients:**

CAS: 67-63-0 EINECS: 200-661-7	<b>Propan-2-ol</b> Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-50 %
CAS: 142-82-5 EINECS: 205-563-8	<b>Heptane</b> Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	10-25 %
CAS: 108-87-2 EINECS: 203-624-3	<b>Methylcyclohexane</b> Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	2.5-10 %
CAS: 110-82-7 EINECS: 203-806-2	<b>Cyclohexane</b> Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	2.5-10 %

Additional information: Wording of the listed hazard statements is given in Section 16.

**Profisep 2010****SECTION 4: First aid measures**

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**4.1 After inhalation:****If inhaled:**

In case of unconsciousness place and transport in a stable lateral position. Provide fresh air, consult a doctor in case of discomfort.

**After skin contact:**

Wash off immediately with soap and water and rinse thoroughly.

**After eye contact:**

Rinse eyes under running water for several minutes with the eyelid open. If symptoms persist, consult a physician.

**After swallowing:**

Do not induce vomiting, seek medical attention 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: Fire Fighting measures:**

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**5.1 Suitable extinguishing media:**

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

**Extinguishing media unsuitable for safety reasons:**

Full water jet.

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

No further relevant information available.

**5.3 Advice for firefighters****Special protective equipment:**

No special measures required.

**SECTION 6: Accidental release measures**

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

Wear protective equipment. Keep unprotected persons away.

**6.2 Environmental precautions:**

In case of penetration into waters or the sewage system, inform the competent authorities.  
Do not allow to enter the sewage system/surface water/groundwater.

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

Absorb with liquid-binding material (sand, diatomite, universal binders and sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.

**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**

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**7.1 Handling:****Precautions for safe handling:**

Store in cool and dry place in tightly closed containers.

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Notes on fire and explosion protection:  
Keep sources of ignition away - no smoking.  
Take measures against electrostatic charging.

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

**Requirements for storage rooms and containers:**

Store in a cool place.

**Information on common storage:**

Not required.

**Further information about storage conditions:**

Keep container tightly sealed.  
Store in cool and dry place in tightly closed containers.

**Storage class:**

SC 3

**7.3 Specific end uses:**

No further relevant information available.

**SECTION 8: Exposure controls / Personal protection**

**Additional information on the design of technical systems:**

No further information, see Section 7.

**8.1 Ingredients with limit values that require monitoring at the workplace:****67-63-0 propan-2-ol**OEL - long-term value: 500 mg/m<sup>3</sup>, 200 ml/m<sup>3</sup> / 2(II); DFG, Y**142-82-5 heptane**TLV - long-term value: 2100 mg/m<sup>3</sup>, 500 ml/m<sup>3</sup>**108-87-2 Methylcyclohexane**OEL - long-term value: 810 mg/m<sup>3</sup>, 200 ml/m<sup>3</sup> / 2(II); DFG**110-82-7 cyclohexane**OEL - long-term value: 700 mg/m<sup>3</sup>, 200 ml/m<sup>3</sup> / 4(II); DFG, EU**Components with biological limit values:****67-63-0 Propan-2-ol**

BLV 25 mg/l  
Sample material: Whole blood  
Sampling time: end of exposure or shift  
Parameter: Acetone  
25 mg/l  
Sample material: Urine  
Sampling time: end of exposure or shift  
Parameter: Acetone

**110-82-7 Cyclohexane**

BLV 150 mg/g creatinine  
Sample material: Urine  
Sampling time: for long-term exposure: after several previous shifts, end of exposure or end of shift  
Parameter: 1,2-Cyclohexandiole (after hydrolysis)

**Additional information:**

The lists valid at the time of preparation served as a basis..

**8.2 Exposure controls**

**Personal protective equipment:**

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<b>General protective and hygienic measures:</b>	Keep away from food, drink and animal feed. Take off contaminated, soaked clothing immediately. Wash hands prior to breaks and at the end of work. Avoid contact with eyes and skin.
<b>Respiratory protection:</b>	Not required with good room ventilation.
<b>Protection of hands:</b>	Protective gloves.
The glove material must be impermeable and resistant to the product / substance / preparation. Selection of the glove material taking into account breakthrough times, permeation rates and degradation.	
<b>Glove material:</b>	The selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.
<b>Penetration time of glove material:</b>	The exact breakthrough time must be obtained from the manufacturer of the protective gloves and must be observed.
<b>Gloves made of the following materials are suitable for permanent contact:</b>	Polychloroprene - CR (0.5 mm): breakthrough time > 4 h Nitrile rubber/nitrile latex - NBR (0.35 mm): breakthrough time > 4h Butyl rubber - butyl (0.5 mm): breakthrough time > 8 h Fluorinated rubber - FKM (0.4 mm): breakthrough time > 8 h Polyvinylchloride - PVC (0.5 mm): breakthrough time > 4 h This recommendation is based exclusively on the chemical compatibility and the test according to EN 374 under laboratory conditions. Depending on the use, different requirements may arise. Therefore, the recommendations of the supplier of the protective gloves must also be taken into account.
<b>Gloves made of the following materials are suitable as splash protection:</b>	Nitrile rubber.
<b>Eye protection:</b>	Tightly sealing safety goggles.

**SECTION 9. Physical and chemical properties****9.1 General information:**

<b>Appearance:</b>	
<b>Form:</b>	Liquid
<b>Colour:</b>	Clear
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	Not determined.
<b>Change in condition:</b>	
<b>Melting point/melting range:</b>	Reversible precipitation below 12°C possible
<b>Boiling point / Boiling range:</b>	78°C
<b>Flash point:</b>	-9°C
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	215°C
<b>Decomposition temperature:</b>	Not determined.
<b>Self-igniting:</b>	Product is not self-igniting.
<b>Danger of explosion:</b>	The product is not explosive, however, the formation of

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<b>Explosion limits:</b>	explosive vapour/air mixtures is possible.
<b>Lower:</b>	1.1 Vol %
<b>Upper:</b>	12,0 Vol %
<b>Vapour pressure at 20 °C:</b>	48 hPa
<b>Density at 20°C:</b>	0,74 g/cm <sup>3</sup>
<b>Relative density:</b>	Not determined.
<b>Vapour density:</b>	Not determined.
<b>Evaporation rate:</b>	Not determined.
<b>Solubility in / miscibility with water:</b>	Not miscible or hardly miscible.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Solvent content:</b>	
<b>Organic solvents:</b>	>70,0 %
<b>Water:</b>	0 %
<b>VOC (EC):</b>	78 %

**9.2 Other information:** No further relevant information available.

**SECTION 10: Stability and Reactivity**
**10.1 Reactivity**
**10.2 Chemical stability**

**Thermal decomposition / conditions to be avoided:** No decomposition if used as intended.

**10.2 Possibility of hazardous reactions:** No hazardous reactions known.

**10.3 Conditions to avoid:** No further relevant information available.

**10.4 Incompatible materials:** No further relevant information available.

**10.5 Hazardous decomposition products:** No hazardous decomposition products known.

**Section 11: Toxicological Information**
**11.1 Information on toxicological effects**
**Acute toxicity:**
**Classification-relevant LD/LC50 values:**
**67-63-0 propan-2-ol**

Oral / LD50 / 5045 mg/kg (rat)

Dermal / LD50 / 12800 mg/kg (rabbit)

Inhalative / LC50 /4 h 30 mg/l (rat)

**108-87-2 methylcyclohexane**

Oral / LD50 / 2250 mg/kg (mouse)

**110-82-7 cyclohexane**

Oral LD50 12705 mg/kg (rat)

**Primary irritant effect:**

**Etching/irritant effect on the skin:** Irritating to skin and mucous membranes.

**Severe eye damage/irritation:** Irritant effect.

**Sensitisation of the respiratory tract/skin:** May be fatal if swallowed and enters airways.

**Profisep 2010****Additional toxicological information:**

Based on the calculation method of the General Classification Guideline of the EU for preparations in the last amended version, the product exhibits the following hazards:

- Irritant
- Sensitisation not applicable
- CMR effects (carcinogenic, mutagenic and teratogenic)

<b>Germ cell mutagenicity:</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity:</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity:</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity at single exposure:</b>	May cause drowsiness or dizziness.
<b>Specific target organ toxicity at repeated exposure:</b>	Based on available data, the classification criteria are not met.

**SECTION 12: Ecological Information**

<b>12.1 Toxicity</b>	
<b>Aquatic toxicity:</b>	No further relevant information available.
<b>12.2 Persistence and degradability:</b>	No further relevant information available.
<b>12.3 Bioaccumulative potential:</b>	No further relevant information available.
<b>12.4 Mobility in soil:</b>	No further relevant information available.
<b>Ecotoxicological effects:</b>	
<b>Note:</b>	Very toxic for fish.
<b>Further ecological information:</b>	Water hazard class: 2 (self-classification): hazardous to water Do not allow to enter groundwater, waters or the sewage system. Also toxic to fish and plankton in waters. Very toxic to aquatic life
<b>12.5 Results of PBT and vPvB assessment:</b>	
<b>PBT:</b>	Not applicable.
<b>vPvB:</b>	Not applicable.
<b>12.6 Other adverse effects:</b>	No further relevant information available.

**SECTION 13: Disposal Considerations**




<b>13.1 Waste treatment methods</b>	
<b>Recommendation:</b>	Must not be disposed of together with household waste. Do not allow to enter the sewage system.
<b>European waste catalogue:</b>	
<b>07 00 00</b>	WASTES FROM ORGANIC CHEMICAL PROCESSES
<b>07 07 00</b>	Waster from MFSU of fine chemicals and chemicals a. n. g.

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**07 07 04\*** Other organic solvents, washing liquids and mother liquors

**Uncleaned packaging – Recommendation:** Disposal in accordance with official regulations.

**SECTION 14: Transport Information**

- 14.1 UN-Number**  
**ADR, IMDG, IATA:** UN1993
- 14.2 UN proper shipping name**  
**ADR:** 1993 FLAMMABLE LIQUID SUBSTANCE, N . A . G . (HEPTANE , ISOPROPANOL (ISOPROPYL ALCOHOL)), ENVIRONMENTALLY HAZARDOUS
- IMDG, IATA:** FLAMMABLE LIQUID, N.O.S. (HEPTANES, ISOPROPANOL (ISOPROPYL ALCOHOL))
- 14.3 Transport hazard class:**  
**ADR:**
- 

- Class:** 3 Flammable liquid substances.  
**Hazard label:** 3
- IMDG, IATA**
- 
- Class:** 3 Flammable liquid substances.  
**Label:** 3  
**ADR, IMDG, IATA**
- 14.4 Packaging group:**  
**ADR, IMDG, IATA:** II
- 14.5 Environmental hazards:**  
**Marine pollutant:** No.  
**Special marking (ADR):** Symbol (fish and tree)
- 14.6 Special precautions for user**  
**Kemler number:** 33  
**EMS number:** F-E,S-E
- 14.7 Transport in bulk according to Annex II of the MARPOL Agreement and according to the IBC Code:** Not applicable.
- Transport/Additional information:**  
**ADR**  
**Excepted quantities (EQ):** E2  
**Limited quantity (LQ):** 1L  
**Transport category:** 2



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<b>Tunnel restriction code:</b>	D/E
<b>Comments:</b>	Limited quantity: maximum 30 kg per package, apply "diamond with black corners" label to the transport package.
<b>UN „Model Regulation“:</b>	UN1993, FLAMMABLE LIQUID, N.A.G. (HEPTANE, ISOPROPANOL (ISOPROPYL ALCOHOL)), ENVIRONMENTALLY HAZARDOUS, 3, II

**SECTION 15: Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
Labelling according to Regulation (EC) 1272/2008 GHS labelling elements****National regulations:**

Ordinance on Major Accidents: The quantity thresholds according to the Ordinance on Major Accidents must be observed.

Water hazard class: WGK 2 (self-classification): hazardous to water.

**15.2 Chemical safety assessment:** A chemical safety assessment has not been conducted.

**SECTION 16: Further Information**

The information is based on the current state of our knowledge, however, it does not represent a guarantee of product characteristics and does not establish a contractual legal relationship.

**16.1 Relevant sentences:**

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Toxic to aquatic life with long lasting effects.
H411	Very toxic to aquatic life with long lasting effects.

**16.2 Abbreviations and acronyms:**

RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).
IATA-DGR:	Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
IATA:	International Air Transport Association.
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization".
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 Harmonized 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.
Flam. Liq. 2:	Flammable liquids, Hazard Category 2
Skin Irrit. 2:	Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2:	Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3:	Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1:	Aspiration hazard, Hazard Category 1

## EU – Safety Data Sheet



according to Regulation (EC) No. 1907/2006 (REACH), Article 31

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Aquatic Acute 1:	Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1:	Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2:	Hazardous to the aquatic environment - Chronic Hazard, Category 2

**\* Data changed versus the previous version**