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: No further relevant information available.

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 / 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:

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	**Propan-2-ol** Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-50 %
CAS: 142-82-5 EINECS: 205-563-8	**Heptane** 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	**Methylcyclohexane** 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	**Cyclohexane**	2.5-10 %

EINECS: 203-806-2	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, 4410; Skin Irrit. 2, H315; STOT SE 3, H336	

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

SECTION 4: First aid measures

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:

5.1 Suitable extinguishing media: CO2, 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

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

7.1 Handling:

Precautions for safe handling: Store in cool and dry place in tightly closed containers.
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/m³, 200 ml/m³ / 2(II); DFG, Y

142-82-5 heptane
TLV - long-term value: 2100 mg/m³, 500 ml/m³

108-87-2 Methylcyclohexane
OEL - long-term value: 810 mg/m³, 200 ml/m³ / 2(II); DFG

110-82-7 cyclohexane
OEL - long-term value: 700 mg/m³, 200 ml/m³ / 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:

General protective and hygienic measures: 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.

Respiratory protection: Not required with good room ventilation.

Protection of hands: 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.

Glove material: 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.

Penetration time of glove material: The exact breakthrough time must be obtained from the manufacturer of the protective gloves and must be observed.

Gloves made of the following materials are suitable for permanent contact: 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.

Gloves made of the following materials are suitable as splash protection: Nitrile rubber.

Eye protection: Tightly sealing safety goggles.

SECTION 9. Physical and chemical properties

9.1 General information:

Appearance:

Form:	Liquid
Colour:	Clear
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition:	
Melting point/melting range:	Reversible precipitation below 12°C possible
Boiling point / Boiling range:	78°C

Flash point:	-9°C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	215°C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not self-igniting.
Danger of explosion:	The product is not explosive, however, the formation of explosive vapour/air mixtures is possible.
Explosion limits:	
Lower:	1.1 Vol %
Upper:	12,0 Vol %
Vapour pressure at 20 °C:	48 hPa
Density at 20°C:	0,74 g/cm^3
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / miscibility with water:	Not miscible or hardly miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	>70,0 %
Water:	0 %
VOC (EC):	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.

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)

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.

Specific target organ toxicity at single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity at repeated exposure: Based on available data, the classification criteria are not met.

SECTION 12: Ecological Information

12.1 Toxicity
Aquatic toxicity: No further relevant information available.

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.
Ecotoxical effects:
Note: Very toxic for fish.

Further ecological information: 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

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:	Must not be disposed of together with household waste. Do not allow to enter the sewage system.
European waste catalogue:	
07 00 00	WASTES FROM ORGANIC CHEMICAL PROZESSES
07 07 00	Waster from MFSU of fine chemicals and chemicals a. n. g.
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 Flammable liquid substances
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
Tunnel restriction code:	D/E
Comments:	Limited quantity: maximum 30 kg per package, apply "diamond with black corners“ label to the transport package.
UN „Model Regulation“:	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
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**