Material Safety Data Sheet

ProSolv – PS1

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1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION OF THE COMPANY

- Product Name :- ProSolv – PS1
- Company name :- Ultrakem Detergents &Sanitizers
- Telephone :- 050-4968668
- Email :- info@ultra-kem.com
- Web site :- www.ultra-kem.com

2 COMPOSITION / INFORMATION ON INGREDIENTS

	Weight percentage	EC Number	CAS Number
sodium hydroxide	10- 30 %	---	1310-73-2
Anionic Surfactant	1-5 %		68515-73-1
Dipropylene Glycol Methylether	1-5 %		111-76-2
ionic compound	1-5 %		6834-92-0

3 HAZARDS IDENTIFICATION

Classification of the substance or mixture

- . **Hazard statements:**
- H314 - Causes severe skin burns and eye damage.
- **Prevention statement(s):**
- Wash face, hands and any exposed skin thoroughly after handling.

- Wear protective gloves, protective clothing and eye or face protection.

Response statement(s):

- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.Continue rinsing.
- Immediately call a POISON CENTRE, doctor or physician.
- Specific treatment (see supplemental first aid instructions on this label).
- Wash contaminated clothing before reuse.

4 FIRST AID MEASURES

General Information:

- **Inhalation** Remove person to fresh air and keep comfortable for breathing. Get medical attention or advice if you feel unwell.
- **Skin contact:** Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician.
- **Eye contact:** Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses,
- if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.
- **Ingestion:** Rinse mouth. Immediately drink 1 glass of water. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.
- **Self-protection of first aider:** Consider personal protective equipment as indicated in subsection 8.2.
- **First aid facilities:** Shower and eyewash facilities should be considered in a workplace where necessary.
- **Most important symptoms and effects, both acute and delayed**
- **Inhalation:** No known effects or symptoms in normal use.
- **Skin contact:** Causes severe burns.
- **Eye contact:** Causes severe or permanent damage.
- **Ingestion:** Ingestion will lead to a strong

5 FIRE FIGHTING MEASURES

Extinguishing media

- Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

Special hazards arising from the substance or mixture

- No special hazards known.

Advice for firefighters

- As in any fire, wear self-contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

- Wear suitable protective clothing, gloves and eye/face protection.

Environmental precautions

- Do not allow to enter drainage system, surface or ground water. Dilute with plenty of water.

Methods and material for containment and cleaning up

Use neutralizing agent. Absorb onto dry sand or similar inert material.

7 HANDLING & STORAGE

Precautions for safe handling

- Measures to prevent fire and explosions:

No special precautions required.

- Measures required to protect the environment:
- For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

- Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Use only with adequate ventilation.

Conditions for safe storage, including any incompatibilities

- Store in accordance with local and national regulations. Keep only in original container. Store in a closed container.

8 EXPOSURE CONTROL / PERSONAL PROTECTION

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Ingredient(s)	Long term value(s) (TWA)	Short term value(s) (STEL)	Peak value(s)
sodium hydroxide mg/m3	--	----	2

- 8.2 Exposure controls
- The following information applies for the uses indicated in subsection 1.2.
- If available, please refer to the product information sheet for application and handling instructions.
- Normal use conditions are assumed for this section.
- Recommended safety measures for handling the undiluted product:
- Appropriate engineering controls: Where possible: use in automated/closed system and cover open containers. Transport over pipes.
- Filling with automatic systems. Use tools for manual handling of product.
- Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel. Personal protective equipment
- Eye / face protection: Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.
- Hand protection: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier.
- Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
- Suggested gloves for prolonged contact:
- Material: butyl rubber
- Penetration time: >= 480 min
- Material thickness: >= 0.7 mm
- Suggested gloves for protection against splashes:
- Material: nitrile rubber
- Penetration time: >= 30 min
- Material thickness: >= 0.4 mm
- In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
- Body protection: Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur.
- Respiratory protection: No special requirements under normal use conditions.

9 PHYSICAL & CHEMICAL PROPERTIES

- Physical State: clear Colorless liquid
- Odour: Product specific
- pH: ≈ 8- 9 (neat)
- Melting point/freezing point (°C): Not determined
- Initial boiling point and boiling range (°C): Not determined
- Flash point (°C): Not applicable.
- Sustained combustion: Not determined

- Evaporation rate: Not determined
- Flammability (solid, gas): Not determined
- Upper/lower flammability limit (%): Not determined
- Vapour pressure: Not determined
- Vapour density: Not determined
- Relative density: 1.36 g/cm³ (20 °C).

10 STABILITY & REACTIVITY

Reactivity

- No reactivity hazards known under normal storage and use conditions.

Chemical stability

- Stable under normal storage and use conditions.

Possibility of hazardous reactions

- No hazardous reactions known under normal storage and use conditions.

Conditions to avoid

- None known under normal storage and use conditions.

Incompatible materials

- Reacts with acids.

Hazardous decomposition products

- None known under normal storage and use conditions..

11 TOXICOLOGICAL INFORMATION

11.1) Information on toxicological effects

No data is available on the mixture

Hazardous ingredients:

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short term exposure.

12 ECOLOGICAL INFORMATION

- Toxicity
- **Ecotoxicity values:**
- No data available.
- **Persistence and degradability:**
- Not biodegradable.
- **Bioaccumulative potential:**
- Bioaccumulation potential.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

- Waste from residues / unused products:
- The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.
- Empty packaging
  Recommendation: Dispose of observing national or local regulations.
- Suitable cleaning agents: Water, if necessary with cleaning agent.

14 Transport information

- ADG, IMO/IMDG, ICAO/IATA
- UN number: 1824
- UN proper shipping name: Sodium hydroxide solution
- Transport hazard class(es): Class: 8
- Label(s): 8
- Packing group: II
- Environmental hazards:
- Environmentally hazardous: No
- Marine pollutant: No
- Special precautions for user: None known.
- Transport in bulk according to Annex II - 73/78 and the IBC Code: The product is not transported in bulk tankers.
- Other relevant information:
- Hazchem code: 2R

15 REGULATORY INFORMATION

Hazard symbol :

- Xn, HARMFUL, N, Dangerous to the environment - Contains Sodium hydroxide.

Risk phrases :

- R22 Harmful if swallowed.
- R36/37 Irritating to eyes and respiratory system.
- R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Safety phrases :

- S2 Keep out of reach of children.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S61 Avoid release to the environment. Refer to special instructions / safety data sheets.

16 OTHER INFORMATION

• H290 - May be corrosive to metals.

• H314 - Causes severe skin burns and eye damage.

• H318 - Causes serious eye damage.

Abbreviations

- ACGIH American Conference of Governmental Industrial Hygienists
- CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds
- CNS Central Nervous System
- EC No. EC No - European Community Number
- GHS Globally Harmonized System
- IARC International Agency for Research on Cancer
- LD50 Lethal Dose, 50% / Median Lethal Dose
- mg/m³ Milligrams per Cubic Meter
- PEL Permissible Exposure Limit
- pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
- ppm Parts Per Million
- REACH Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals
- STOT-RE Specific target organ toxicity (repeated exposure)
- STOT-SE Specific target organ toxicity (single exposure)
- SUSMP Standard for the Uniform Scheduling of Medicines and Poisons
- TLV Threshold Limit Value
- TWA/OEL Time Weighted Average or Occupational Exposure Limit