Gelest® UtenSil™ Dissolution Agent D1
Safety Data Sheet PP1-USD1
Date of issue: 31/08/2015 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Physical state : Liquid
Product name : Gelest® UtenSil™ Dissolution Agent D1
Product code : PP1-USD1
Synonyms : SILICONE CLEANING SOLVENT; ODORLESS MINERAL SPIRITS - AROMATIC SULFONIC ACID BLEND
Chemical family : PETROLEUM DISTILLATE

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Chemical intermediate

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

GELEST, INC.
11 East Steel Road
Morrisville, PA 19067
USA
T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST
info@gelest.com - www.gelest.com

GELEST INC.
Fritz-Klatte-Strasse 8
65933 Frankfurt
Germany
T +49 (0) 69 3535106-500 - F +49 (0) 69 3535106-501 - (M-F): 8:00 AM - 4:00 PM
info@gelestde.com - www.gelestde.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acute toxicity (oral), Category 4 H302
Skin corrosion/irritation, Category 1C H314
Serious eye damage/eye irritation, Category 1 H318
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335
Aspiration hazard, Category 1 H304
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP) : GHS05 GHS07 GHS08
Signal word (CLP) : Danger
Hazardous ingredients: Dodecylbenzene sulfonic acid; Light petroleum distillate-hydrotreated

Hazard statements (CLP):
- H302 - Harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H314 - Causes severe skin burns and eye damage.
- H335 - May cause respiratory irritation.

Precautionary statements (CLP):
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P260 - Do not breathe vapours.
- P264 - Wash hands thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER.

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light petroleum distillate-hydrotreated</td>
<td>(CAS-No.) 64742-47-8</td>
<td>75 - 85</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304</td>
</tr>
<tr>
<td>Dodecylbenzene sulfonic acid</td>
<td>(CAS-No.) 27176-87-0</td>
<td>15 - 25</td>
<td>Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.

First-aid measures after skin contact: Wash with plenty of water/.… Get immediate medical advice/attention.

First-aid measures after eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion: Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects: Causes severe skin burns and eye damage.
Symptoms/effects after inhalation: May cause respiratory irritation. Petroleum Distillate can cause vertigo, incoordination and stupor at 5000ppm.
Symptoms/effects after skin contact: Causes (severe) skin burns.
Symptoms/effects after eye contact: Causes serious eye damage.
Symptoms/effects after ingestion: May be fatal if swallowed and enters airways.
Chronic symptoms: The related nonhydrotreated volatile petroleum distillate is a potential human carcinogen.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: Do not use straight streams.
5.2. Special hazards arising from the substance or mixture

Fire hazard: Combustible liquid. Irritating fumes of hydrochloric acid and organic acid vapors may develop when material is exposed to water or open flame.

5.3. Advice for firefighters

Firefighting instructions: Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapour and mist.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Remove ignition sources. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Protective equipment: Wear protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal. Use only non-sparking tools.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Precautions for safe handling: Avoid all eye and skin contact and do not breathe vapour and mist. Provide good ventilation in process area to prevent formation of vapour. Ground/bond container and receiving equipment. Use only non-sparking tools.

Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Keep in a cool place. Store locked up.

Incompatible materials: Oxidizing agent.

Storage area: Store in a well-ventilated place. Store away from heat.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:
Provide local exhaust or general room ventilation.

Personal protective equipment:
Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:
Neoprene or nitrile rubber gloves

Eye protection:
Chemical goggles or face shield. Contact lenses should not be worn

**Skin and body protection:**
Wear suitable protective clothing

**Respiratory protection:**
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified combination organic vapor/acid gas (yellow cartridge) respirator.

### SECTION 9: Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Colour</td>
<td>Amber.</td>
</tr>
<tr>
<td>Odour</td>
<td>Mild.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Refractive index</td>
<td>No additional information available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>&lt; -20 °C</td>
</tr>
<tr>
<td>Boiling point</td>
<td>200 °C (initial)</td>
</tr>
<tr>
<td>Flash point</td>
<td>76 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>210 °C (petroleum distillate)</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Combustible liquid</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>&lt; 10 mm Hg @ 20°C</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>&gt; 3</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.847</td>
</tr>
<tr>
<td>% Volatiles</td>
<td>&gt; 70 %</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water. Reacts with water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>3 - 5 cSt</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>0.7 - 5 vol % (lower; upper: petroleum distillate)</td>
</tr>
</tbody>
</table>

#### 9.2. Other information
No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity
No additional information available

#### 10.2. Chemical stability
Stable in sealed containers stored under a dry inert atmosphere.

#### 10.3. Possibility of hazardous reactions
No additional information available

#### 10.4. Conditions to avoid
Heat. Open flame. Sparks.

#### 10.5. Incompatible materials
Oxidizing agent.

#### 10.6. Hazardous decomposition products
Organic acid vapors.
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Harmful if swallowed.

Gelest® UtenSil™ Dissolution Agent D1

<table>
<thead>
<tr>
<th>ATE CLP (oral)</th>
<th>500 mg/kg bodyweight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dodecylbenzene sulfonic acid (27176-87-0)</strong></td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>650 mg/kg</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td>650 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

- Skin corrosion/irritation: Causes severe skin burns and eye damage.
- Serious eye damage/irritation: Causes serious eye damage.
- Respiratory or skin sensitisation: Not classified
- Germ cell mutagenicity: Not classified
- Carcinogenicity: Not classified
- Reproductive toxicity: Not classified
- STOT-single exposure: May cause respiratory irritation.
- STOT-repeated exposure: Not classified
- Aspiration hazard: May be fatal if swallowed and enters airways.
- Symptoms/effects after inhalation: May cause respiratory irritation. Petroleum Distillate can cause vertigo, incoordination and stupor at 5000ppm.
- Symptoms/effects after skin contact: Causes (severe) skin burns.
- Symptoms/effects after eye contact: Causes serious eye damage.
- Symptoms/effects after ingestion: May be fatal if swallowed and enters airways.
- Chronic symptoms: The related nonhydrotreated volatile petroleum distillate is a potential human carcinogen.
- Reason for classification: Expert judgment

SECTION 12: Ecological information

12.1. Toxicity

- Acute aquatic toxicity: Not classified
- Chronic aquatic toxicity: Not classified

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects: This substance may be hazardous to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Sewage disposal recommendations: Do not dispose of waste into sewer.
- Product-Packaging disposal recommendations: May be incinerated. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.
- Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

- UN-No. (ADR): 2586
- UN-No. (IMDG): 2586
- UN-No. (IATA): 2586
Gelest® UtenSil™ Dissolution Agent D1
Safety Data Sheet

| UN-No. (ADN) | 2586 |
| UN-No. (RID) | 2586 |

14.2. UN proper shipping name

| Proper Shipping Name (ADR) | ALKYL SULPHONIC ACIDS, LIQUID |
| Proper Shipping Name (IMDG) | ALKYL SULPHONIC ACIDS, LIQUID |
| Proper Shipping Name (IATA) | Alkylsulphonic acids, liquid |
| Proper Shipping Name (ADN) | ALKYL SULPHONIC ACIDS, LIQUID |
| Proper Shipping Name (RID) | ALKYL SULPHONIC ACIDS, LIQUID |

| Transport document description (ADR) | UN 2586 ALKYL SULPHONIC ACIDS, LIQUID, 8, III, (E) |
| Transport document description (IMDG) | UN 2586 ALKYL SULPHONIC ACIDS, LIQUID, 8, III |
| Transport document description (IATA) | UN 2586 Alkylsulphonic acids, liquid, 8, III |
| Transport document description (ADN) | UN 2586 ALKYL SULPHONIC ACIDS, LIQUID, 8, III |
| Transport document description (RID) | UN 2586 ALKYL SULPHONIC ACIDS, LIQUID, 8, III |

14.3. Transport hazard class(es)

| ADR |
| Transport hazard class(es) (ADR) | 8 |
| Danger labels (ADR) | 8 |

| IMDG |
| Transport hazard class(es) (IMDG) | 8 |
| Danger labels (IMDG) | 8 |

| IATA |
| Transport hazard class(es) (IATA) | 8 |
| Hazard labels (IATA) | 8 |

| ADN |
| Transport hazard class(es) (ADN) | 8 |
| Danger labels (ADN) | 8 |

| RID |
| Transport hazard class(es) (RID) | 8 |
| Danger labels (RID) | 8 |
### 14.4. Packing group

<table>
<thead>
<tr>
<th>Packing group (ADR)</th>
<th>III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing group (IMDG)</td>
<td>III</td>
</tr>
<tr>
<td>Packing group (IATA)</td>
<td>III</td>
</tr>
<tr>
<td>Packing group (ADN)</td>
<td>III</td>
</tr>
<tr>
<td>Packing group (RID)</td>
<td>III</td>
</tr>
</tbody>
</table>

### 14.5. Environmental hazards

<table>
<thead>
<tr>
<th>Dangerous for the environment</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine pollutant</td>
<td>No</td>
</tr>
<tr>
<td>Other information</td>
<td>No supplementary information available</td>
</tr>
</tbody>
</table>

### 14.6. Special precautions for user

#### Overland transport

- **Classification code (ADR)**: C3
- **Limited quantities (ADR)**: 5l
- **Excepted quantities (ADR)**: E1
- **Packing instructions (ADR)**: P001, IBC03, LP01, R001
- **Mixed packing provisions (ADR)**: MP19
- **Portable tank and bulk container instructions (ADR)**: T4
- **Portable tank and bulk container special provisions (ADR)**: TP1
- **Tank code (ADR)**: L4BN
- **Vehicle for tank carriage**: AT
- **Transport category (ADR)**: 3
- **Special provisions for carriage - Packages (ADR)**: V12
- **Hazard identification number (Kemler No.)**: 80
- **Orange plates**: 80 2586

- **Tunnel restriction code (ADR)**: E
- **EAC code**: 2X

#### Transport by sea

- **Limited quantities (IMDG)**: 5 L
- **Excepted quantities (IMDG)**: E1
- **Packing instructions (IMDG)**: P001, LP01
- **IBC packing instructions (IMDG)**: IBC03
- **Tank instructions (IMDG)**: T4
- **Tank special provisions (IMDG)**: TP1
- **EmS-No. (Fire)**: F-A
- **EmS-No. (Spillage)**: S-B
- **Stowage category (IMDG)**: B
- **Properties and observations (IMDG)**: Liquids usually with a pungent odour. When involved in a fire, evolve highly toxic gases. Corrosive to most metals. Cause burns to skin, eyes and mucous membranes.

#### Air transport

- **PCA Excepted quantities (IATA)**: E1
- **PCA Limited quantities (IATA)**: Y841
- **PCA limited quantity max net quantity (IATA)**: 1L
- **PCA packing instructions (IATA)**: 852
- **PCA max net quantity (IATA)**: 5L
CAO packing instructions (IATA) : 856
CAO max net quantity (IATA) : 60L
ERG code (IATA) : 8L

- Inland waterway transport
  Classification code (ADN) : C3
  Limited quantities (ADN) : 5 L
  Excepted quantities (ADN) : E1
  Carriage permitted (ADN) : T
  Equipment required (ADN) : PP, EP
  Number of blue cones/lights (ADN) : 0

- Rail transport
  Classification code (RID) : C3
  Limited quantities (RID) : 5L
  Excepted quantities (RID) : E1
  Packing instructions (RID) : P001, IBC03, LP01, R001
  Mixed packing provisions (RID) : MP19
  Portable tank and bulk container instructions (RID) : T4
  Portable tank and bulk container special provisions (RID) : TP1
  Tank codes for RID tanks (RID) : L4BN
  Transport category (RID) : 3
  Special provisions for carriage – Packages (RID) : W12
  Colis express (express parcels) (RID) : CE8
  Hazard identification number (RID) : 80

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
Contains no REACH Annex XIV substances

% Volatiles : > 70 %

15.1.2. National regulations

Germany
Reference to AwSV : Water hazard class (WGK) 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands
SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Ontwikkeling

: None of the components are listed

Denmark

Class for fire hazard : Class III-1

Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

- Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemical Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

Other information : Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
<th>Acute toxicity (oral), Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asp. Tox. 1</td>
<td>Aspiration hazard, Category 1</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
<td>Serious eye damage/eye irritation, Category 2</td>
</tr>
<tr>
<td>Skin Corr. 1C</td>
<td>Skin corrosion/irritation, Category 1C</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation, Category 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
</tbody>
</table>

SDS EU (REACH Annex II) - Custom

The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.

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**UtenSil® Wetting Agent W1**
Hydrophilic Modification Solution for Reprographic Grade Silicones

**Description**
UtenSil® Wetting Agent W1 increases the wettability of reprographic silicone surfaces.

**Solution Properties**
- **Form**: clear, colorless
- **Solids**: 5-7 wt%
- **Flashpoint**: 6°C
- **Specific Gravity**: 0.88
- **Viscosity**: 1.0-2.0 cSt
- **Contact Angle, water (1mm thickness)**: 20°

**Shelf life**
12 months when stored below 25°C in sealed containers. Keep container sealed after dispensing product.

**Application Methods**
Immerse oxygen plasma treated reprographic silicone into UtenSil® Wetting Agent W1 for 1 hour. (Reprographic silicones with a thickness >1mm may require longer immersion time in UtenSil® Solution.) Dip the silicone into ethanol to remove excess material. Cure wetting agent on silicone surface at 100°C over 2 hours.

**Standard Packaging**
- PP1-USW1 UtenSil® Wetting Agent W1
  - 100 g
  - 1 kg

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**UtenSil® Dissolution Agent D1**
Digestion Solution for Reprographic Grade Silicones

**Description**
UtenSil® Dissolution Agent D1 is a cleaning solvent that chemically reacts and dissolves silicones.

**Solution Properties**
- **Form**: amber-light brown
- **Solids**: 20-30 wt%
- **Flashpoint**: 93°C
- **Specific Gravity**: 0.85
- **Viscosity**: 5-10 cSt

**Shelf life**
12 months when stored below 25°C in sealed containers. Keep container sealed after dispensing product.

**Application Methods**
Place silicone to be dissolved in a stainless steel or glass container which may be covered to reduce evaporation. Remove any water on the silicone by physical drying or heating in an oven. Immerse silicone in UtenSil® Dissolution Agent D1 solution at room temperature. Dissolution time depends on the type of silicone, thickness and surface area. A typical silicone with a 5 mm section thickness will dissolve in 4-8 hours. Dissolution can be accelerated by warming to 35-50°C. Spot dissolution can be achieved by deposition of Dissolution Agent D1 with a pipette and removing the dissolved material with a pipette, followed by a brief acetone and water rinse.

**Standard Packaging**
- PP1-USD1 UtenSil® Dissolution Agent D1
  - 100 g
  - 1 kg