SECTION 1: Identification

1.1. Identification
Product form : Mixture
Product name : DECON-CLEAN
Product code : SDS DC-01-98

1.2. Recommended use and restrictions on use
Use of the substance/mixture : Residue remover
Restrictions on use : For professional use only

1.3. Supplier
Veltek Associates, Inc.
15 Lee Blvd
Malvern, PA 19355-1234 USA
Telephone: +1 610-644-8335 - Fax: +1 610-644-8336
E-mail: vai@sterile.com

In Canada distributed by:
Canada Clean Room (CCR)
200 Terence Matthews
Kanata, ONT K2M 2C6, Canada
Telephone: 888-595-8070

1.4. Emergency telephone number
Emergency number : CARECHEM 24: 1-215-207-0061
1-866-928-0789 (toll free) Canada: 1-800-579-7421 (toll free)
Mexico: +52-55-5004-8763

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS US classification
Serious eye damage/eye irritation Category 2A H319 Causes serious eye irritation
Hazardous to the aquatic environment - Acute Hazard Category 3 H402 Harmful to aquatic life
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements
GHS US labeling
Hazard pictograms (GHS US) :
Signal word (GHS US) : Warning
Hazard statements (GHS US) :
H319 - Causes serious eye irritation
H402 - Harmful to aquatic life
Precautionary statements (GHS US) :
P264 - Wash hands thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear eye protection, protective clothing, protective gloves.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists: Get medical advice/attention.
P501 - Dispose of contents/container to an authorized waste collection point

2.3. Other hazards which do not result in classification
Other hazards not contributing to the classification : No additional information available.
2.4. Unknown acute toxicity (GHS US)
Not applicable

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>GHS US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>(CAS-No.) 7732-18-5</td>
<td>85 - 90</td>
<td>Not classified</td>
</tr>
<tr>
<td>Fatty acids, tall oil, potassium salts</td>
<td>(CAS-No.) 61790-44-1</td>
<td>5 - 10</td>
<td>Not classified</td>
</tr>
<tr>
<td>Alcohols, C9-11, branched and linear, ethoxylated</td>
<td>(CAS-No.) 68439-46-3</td>
<td>1 - &lt; 3</td>
<td>Eye Dam. 1, H318, Aquatic Acute 2, H401</td>
</tr>
<tr>
<td>Tetrasodium ethylene diamine tetraacetate</td>
<td>(CAS-No.) 64-02-8</td>
<td>0.1 - &lt; 1</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Inhalation), H332</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT RE 2, H373</td>
</tr>
<tr>
<td>Tetrasodium pyrophosphate</td>
<td>(CAS-No.) 7722-88-5</td>
<td>0.1 - &lt; 1</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
</tbody>
</table>

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures
First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation: Remove person to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop obtain medical attention.
First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation persists, consult a doctor.
First-aid measures after eye contact: Rinse immediately with plenty of water. Ensure that folded skin of eyelids is thoroughly washed with water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Give 100 - 200 ml of water to drink. If symptoms develop, obtain medical attention.

4.2. Most important symptoms and effects (acute and delayed)
Potential Adverse human health effects and symptoms: Causes serious eye irritation.

4.3. Immediate medical attention and special treatment, if necessary
Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media
Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media: None known.

5.2. Specific hazards arising from the chemical
Fire hazard: Not flammable. Fire may produce irritating, corrosive and/or toxic gases. Carbon monoxide. Carbon dioxide.

5.3. Special protective equipment and precautions for fire-fighters
Firefighting instructions: Keep upwind. Exercise caution when fighting any chemical fire. On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray. Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus when in close proximity to fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Emergency procedures: Ventilate area. Avoid inhalation of vapors. Avoid contact with skin, eyes and clothing. Evacuate unnecessary personnel.
6.1.2. **For emergency responders**

**Protective equipment**: Equip cleanup crew with proper protection. Use chemically protective clothing.

**Emergency procedures**: Ventilate area. Avoid inhalation of vapors. Avoid contact with skin, eyes and clothing.

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**

**Methods for cleaning up**: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

6.4. **Reference to other sections**

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

**SECTION 7: Handling and storage**

7.1. **Precautions for safe handling**

**Precautions for safe handling**: Provide good ventilation in process area to prevent formation of vapor. Avoid inhalation of vapors. Avoid contact with skin, eyes and clothing.

**Hygiene measures**: Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. 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**

**Technical measures**: Comply with applicable regulations.

**Storage conditions**: Keep only in the original container in a cool, well ventilated place away from: Incompatible materials. Keep container closed when not in use.


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

8.1. **Control parameters**

No additional information available

8.2. **Appropriate engineering controls**

**Appropriate engineering controls**: Provide good ventilation in process area to prevent formation of vapor. Ensure exposure is below occupational exposure limits (where available). Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

**Environmental exposure controls**: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

8.3. **Individual protection measures/Personal protective equipment**

**Personal protective equipment**: Avoid all unnecessary exposure. Wear suitable protective clothing.

**Hand protection**: Wear chemically resistant protective gloves. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

**Eye protection**: Chemical goggles or safety glasses

**Skin and body protection**: Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact

**Respiratory protection**: Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment

**Thermal hazard protection**: Not required for normal conditions of use.

**Other information**: Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.
### 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>Color</td>
<td>Amber</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>9.5 - 11</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>0 °C (32 °F)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>100 °C (212 °F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>20 mm Hg (20 °C/68 °F)</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>&gt; 1 (Air = 1)</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.01 - 1.04 (20 °C/68 °F)(Water = 1)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water: completely miscible</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not established</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not oxidizing</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7).

#### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

Extremely high or low temperatures. Freezing.

#### 10.5. Incompatible materials


#### 10.6. Hazardous decomposition products

Fire may produce irritating, corrosive and/or toxic gases. Carbon monoxide. Carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

#### Tetrasodium ethylene diamine tetraacetate (64-02-8)

<table>
<thead>
<tr>
<th>Effect</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral, rat</td>
<td>1780 - 2000 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation, rat (mg/l)</td>
<td>&gt; 30 mg/l - 6 Hours (OECD 412 method)</td>
</tr>
</tbody>
</table>
DECON-CLEAN
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<table>
<thead>
<tr>
<th>Tetrasodium pyrophosphate (7722-88-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral, rat</td>
<td>300 - 2000 mg/kg body weight</td>
</tr>
<tr>
<td>LD50 dermal, rat</td>
<td>&gt; 2000 mg/kg body weight</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Alcohols, C9-11, branched and linear, ethoxylated (68439-46-3)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral, rat</td>
<td>3488 mg/kg (female)(Read-across)</td>
</tr>
<tr>
<td>LD50 dermal, rabbit</td>
<td>2000 mg/kg (male)(Read-across)</td>
</tr>
<tr>
<td>LC50 inhalation, rat (mg/l)</td>
<td>&gt; 1.6 mg/l - 4 Hours (Read-across)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity – single exposure: Not classified

Specific target organ toxicity – repeated exposure: Not classified

<table>
<thead>
<tr>
<th>Tetrasodium ethylene diamine tetraacetate (64-02-8)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific target organ toxicity – repeated exposure</td>
<td>May cause damage to organs (respiratory tract) through prolonged or repeated exposure (Inhalation).</td>
</tr>
</tbody>
</table>

Aspiration hazard: Not classified

Viscosity, kinematic: No data available

Potential Adverse human health effects and symptoms: Causes serious eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>Tetrasodium ethylene diamine tetraacetate (64-02-8)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish</td>
<td>121 - 1592 mg/l - 96 Hours (Lepomis macrochirus)</td>
</tr>
<tr>
<td>EC50 Daphnia</td>
<td>140 mg/l - 48 Hours (Daphnia magna)(DIN 38412; 11) (Read-across, CAS 6381-92-6)</td>
</tr>
<tr>
<td>NOEC chronic fish</td>
<td>25.7 mg/l - 35 days (Danio rerio)(OECD 210 method) (Read-across, CAS 62-33-9)</td>
</tr>
<tr>
<td>NOEC chronic crustacea</td>
<td>25 mg/l - 21 days (Daphnia magna) (Read-across, CAS 6381-92-6)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tetrasodium pyrophosphate (7722-88-5)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish</td>
<td>&gt; 100 mg/l - 96 Hours (Oncorhynchus mykiss), (Read-across, CAS 7320-34-5), (OECD 203 method)</td>
</tr>
<tr>
<td>EC50 Daphnia</td>
<td>&gt; 100 mg/l - 48 Hours (Daphnia magna, Mobility), (Read-across, CAS 7320-34-5)</td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>&gt; 100 mg/l - 72 Hours (Desmodesmus subspicatus), (Read-across, CAS 7320-34-5), (OECD 201 method)</td>
</tr>
</tbody>
</table>

Additional ecotox information

NOEC, algae: > 100 mg/l (72 Hours, (Desmodesmus subspicatus, Growth rate), (Read-across, CAS 7320-34-5), (OECD 201 method))

<table>
<thead>
<tr>
<th>Alcohols, C9-11, branched and linear, ethoxylated (68439-46-3)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish</td>
<td>5 - 7 mg/l - 96 Hours (Oncorhynchus mykiss)</td>
</tr>
<tr>
<td>EC50 Daphnia</td>
<td>2.5 mg/l - 48 Hours (Daphnia magna, Mobility)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

DECON-CLEAN
Persistence and degradability: No information available.
DECON-CLEAN
Safety Data Sheet

Persistence and degradability

Not readily biodegradable.

Tetrasodium ethylene diamine tetraacetate (64-02-8)

Persistence and degradability

Not relevant for inorganic substances.

Tetrasodium pyrophosphate (7722-88-5)

Bioaccumulative potential

No information available.

Tetrasodium ethylene diamine tetraacetate (64-02-8)

Bioaccumulative potential

Not expected to bioaccumulate.

Alcohols, C9-11, branched and linear, ethoxylated (68439-46-3)

Log Pow

3.74 (25 °C)

Mobility in soil

Ecology - soil

Miscible with water.

Tetrasodium ethylene diamine tetraacetate (64-02-8)

Mobility in soil

Not expected to adsorb to soil

Tetrasodium pyrophosphate (7722-88-5)

Ecology - soil

Soluble in water.

Alcohols, C9-11, branched and linear, ethoxylated (68439-46-3)

Ecology - soil

Moderately soluble in water.

Other adverse effects

Other information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations

Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Additional information

Handle empty containers with care.

Ecology - waste materials

Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

DECON-CLEAN

SARA Section 311/312 Hazard Classes

Health hazard - Serious eye damage or eye irritation
### 15.2. International regulations

#### CANADA

- **Tetrasodium pyrophosphate (7722-88-5)**
  - Listed on the Canadian DSL (Domestic Substances List)

- **Water (7732-18-5)**
  - Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

- **National regulations**
  - No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

<table>
<thead>
<tr>
<th>Component</th>
<th>State or local regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrasodium pyrophosphate(7722-88-5)</td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
</tbody>
</table>

### SECTION 16: Other information

<table>
<thead>
<tr>
<th>Revision date</th>
<th>11/20/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data sources</td>
<td>US OSHA HazCom (GHS) 25 May 2012.</td>
</tr>
<tr>
<td>Other information</td>
<td>None.</td>
</tr>
</tbody>
</table>

**Full text of H-phrases:**

- H302 Harmful if swallowed
- H318 Causes serious eye damage
- H319 Causes serious eye irritation
- H332 Harmful if inhaled
- H373 May cause damage to organs through prolonged or repeated exposure
- H401 Toxic to aquatic life
- H402 Harmful to aquatic life

**Abbreviations and acronyms:**

- ACGIH (American Conference of Government Industrial Hygienists)
- ATE (Acute Toxicity Estimate)
- CAS (Chemical Abstracts Service) number
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| EC50 (Effective Concentration 50%) |
| IARC (International Agency for Research on Cancer) |
| IATA (International Air Transport Association) |
| IMDG (International Maritime Dangerous Goods Code) |
| IMO (International Maritime Organisation) |
| LC50 (Lethal Concentration 50%) |
| LD50 (Lethal Dose 50%) |
| OECD (Organisation for Economic Co-operation and Development) |
| OSHA (Occupational Safety and Health Administration) (US) |
| STEL (Short Term Exposure Limit) |
| TSCA (Toxic Substances Control Act) (US) |
| TWA (Time Weighted Average) |
| UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods) |

**NFPA health hazard:** 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

**NFPA fire hazard:** 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

**NFPA reactivity:** 0 - Material that in themselves are normally stable, even under fire conditions.

**Hazard Rating**

**Health:** 2 Moderate Hazard - Temporary or minor injury may occur

**Flammability:** 0 Minimal Hazard - Materials that will not burn

**Physical:** 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

**Indication of changes:**

<table>
<thead>
<tr>
<th>Section</th>
<th>Changed Item</th>
<th>Change</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Identification</td>
<td>Modified</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Hazards identification</td>
<td>Modified</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Composition/Information on ingredients</td>
<td>Modified</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Fire fighting measures</td>
<td>Modified</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Toxicological information</td>
<td>Modified</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Ecological information</td>
<td>Modified</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Disposal considerations</td>
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<td>15</td>
<td>Regulatory information</td>
<td>Modified</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Other information</td>
<td>Modified</td>
<td></td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)

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