# SAFETY DATA SHEET

**Tergo™ Chlorine-Free Cleaning Fluid - Boil**


## 1. Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>Tergo™ Chlorine-Free Cleaning Fluid - Boil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product number</td>
<td>MCC-TCFCF01EUP</td>
</tr>
<tr>
<td>Synonyms; trade names</td>
<td>M2S-TCFCF01EUP</td>
</tr>
</tbody>
</table>

**Recommended use of the chemical and restrictions on use**

**Application**

Cleaning agent.

**Uses advised against**

No specific uses advised against are identified.

## Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Supplier</th>
<th>MICROCARE CORPORATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>MICROCARE CORPORATION</td>
</tr>
<tr>
<td></td>
<td>595 John Downey Drive</td>
</tr>
<tr>
<td></td>
<td>New Britain, CT 06051</td>
</tr>
<tr>
<td></td>
<td>United States of America</td>
</tr>
<tr>
<td></td>
<td>CAGE: OATV9</td>
</tr>
<tr>
<td></td>
<td>Tel: +1 800 638 0125, +1 860-827-0626</td>
</tr>
<tr>
<td></td>
<td>Fax: +1 860-893-1930</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:techsupport@microcare.com">techsupport@microcare.com</a></td>
</tr>
</tbody>
</table>

**Emergency telephone number**

**Emergency telephone**

CHEMTREC 1-800-424-9300 (within the U.S.)

+1 703-741-5970 (from anywhere in the world)

## 2. Hazard(s) identification

**Classification of the substance or mixture**

**OSHA Regulatory Status**

This Product is Hazardous under the OSHA Hazard Communication Standard.

**Physical hazards**

Not Classified

**Health hazards**

Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336

**Environmental hazards**

Aquatic Acute 2 - H401 Aquatic Chronic 3 - H412

**Label elements**

**Pictogram**

![Pictogram](image)

**Signal word**

Danger
**Tergo™ Chlorine-Free Cleaning Fluid - Boil**

### Hazard statements
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H401 Toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements
- P261 Avoid breathing vapor/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
- P302+P352 If on skin: Wash with plenty of water.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332+P313 If skin irritation occurs: Get medical advice/attention.

### Supplemental label information
Safety data sheet available on request. For use in industrial installations only.

### Contains
Proprietary Fluorocarbon, Proprietary A, Proprietary B, Proprietary C

#### 3. Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Mixtures</th>
<th>CAS number: Proprietary</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Proprietary Fluorocarbon</strong></td>
<td>30-60%</td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2A - H319</td>
<td></td>
</tr>
<tr>
<td>STOT SE 3 - H336</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Proprietary A</strong></th>
<th>30-60%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4 - H302</td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4 - H312</td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2A - H319</td>
<td></td>
</tr>
<tr>
<td>STOT SE 3 - H335</td>
<td></td>
</tr>
<tr>
<td>Aquatic Acute 2 - H401</td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 3 - H412</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Proprietary B</strong></th>
<th>1-5%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Classification</strong></td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4 - H302</td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4 - H332</td>
<td></td>
</tr>
</tbody>
</table>
# Tergo™ Chlorine-Free Cleaning Fluid - Boil

<table>
<thead>
<tr>
<th>Proprietary C</th>
<th>1-5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: Proprietary</td>
<td></td>
</tr>
</tbody>
</table>

## Classification
Skin Corr. 1C - H314  
Eye Dam. 1 - H318  

<table>
<thead>
<tr>
<th>Ethanol</th>
<th>1-5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 64-17-5</td>
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</table>

## Classification
Flam. Liq. 2 - H225  

<table>
<thead>
<tr>
<th>METHANOL</th>
<th>&lt;1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 67-56-1</td>
<td></td>
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</tbody>
</table>

## Classification
Flam. Liq. 2 - H225  
Acute Tox. 3 - H301  
Acute Tox. 3 - H311  
Acute Tox. 3 - H331  
Eye Irrit. 2A - H319  
Repr. 1B - H360  
STOT SE 1 - H370

The full text for all hazard statements is displayed in Section 16.

### Composition comments
TSCA: The ingredients of this product are on the TSCA Inventory. The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of CFR 1900.1200

### Ingredient notes
Denaturants in Ethanol include Methanol, CAS# 67-56-1; MIBK, CAS# 108-10-1 and Ethyl acetate, CAS# 141-78-6

### Composition

#### 4. First-aid measures

**Description of first aid measures**

**General information**
Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

**Inhalation**
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place.

**Ingestion**
Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Get medical attention if symptoms are severe or persist.

**Skin Contact**
Rinse with water.
Tergo™ Chlorine-Free Cleaning Fluid - Boil

**Eye contact**
Rinse immediately with plenty of water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

**Protection of first aiders**
First aid personnel should wear appropriate protective equipment during any rescue.

**Most important symptoms and effects, both acute and delayed**

**General information**
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**
A single exposure may cause the following adverse effects: Irritation of nose, throat and airway. Difficulty in breathing. Coughing. Vapors may cause headache, fatigue, dizziness and nausea. Central nervous system depression.

**Ingestion**
May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.

**Skin contact**
Redness. Irritating to skin.

**Eye contact**
Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

**Indication of immediate medical attention and special treatment needed**

**Notes for the doctor**
Treat symptomatically.

**5. Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing media**
The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media**
Do not use water jet as an extinguisher, as this will spread the fire.

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

**Flammability Class**
The product is not flammable. Tag closed cup.

**Specific hazards**
Containers can burst violently or explode when heated, due to excessive pressure build-up. This product is toxic.

**Hazardous combustion products**
Thermal decomposition or combustion products may include the following substances: Toxic gases or vapors.

**Advice for firefighters**

**Protective actions during firefighting**
Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters**
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**
Tergo™ Chlorine-Free Cleaning Fluid - Boil

**Personal precautions**
Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid inhalation of vapors and spray/mists. Use suitable respiratory protection if ventilation is inadequate.

**Environmental precautions**
Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

**Methods and material for containment and cleaning up**
Methods for cleaning up
Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Provide adequate ventilation. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.

**Reference to other sections**
For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

**7. Handling and storage**

**Precautions for safe handling**
Usage precautions
Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. May damage fertility. May damage the unborn child. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene
Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

**Conditions for safe storage, including any incompatibilities**

Storage precautions
Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

Storage class
Miscellaneous hazardous material storage.

Specific end use(s)
The identified uses for this product are detailed in Section 1.

Usage description
Cleaning agent.

**Reference to other sections.**
Store away from incompatible materials (see Section 10).

**8. Exposure controls/Personal protection**

**Control parameters**
**Occupational exposure limits**
Proprietary B

Long-term exposure limit (8-hour TWA): 10 ppm 44.2 mg/m³
Tergo™ Chlorine-Free Cleaning Fluid - Boil

Ethanol
Short-term exposure limit (15-minute): ACGIH 1000 ppm 1880 mg/m³
A3
Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 1900 mg/m³

METHANOL
Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 262 mg/m³
Short-term exposure limit (15-minute): ACGIH 250 ppm 328 mg/m³
Sk
Long-term exposure limit (8-hour TWA): OSHA 200 ppm 260 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists.
A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.
OSHA = Occupational Safety and Health Administration.
Sk = Danger of cutaneous absorption.

Additional Occupational Exposure Limits

METHANOL (CAS: 67-56-1)

Biological limit values 15 mg/l

Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection
Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection
Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection
Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures
Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection
Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.
**Tergo™ Chlorine-Free Cleaning Fluid - Boil**

**Environmental exposure controls**
Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

<table>
<thead>
<tr>
<th>9. Physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Information on basic physical and chemical properties</strong></td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
</tr>
<tr>
<td><strong>Color</strong></td>
</tr>
<tr>
<td><strong>Odor</strong></td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
</tr>
<tr>
<td><strong>pH</strong></td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
</tr>
<tr>
<td><strong>Initial boiling point and range</strong></td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
</tr>
<tr>
<td><strong>Evaporation factor</strong></td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
</tr>
<tr>
<td><strong>Other flammability</strong></td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
</tr>
<tr>
<td><strong>Bulk density</strong></td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
</tr>
<tr>
<td><strong>Partition coefficient</strong></td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
</tr>
<tr>
<td><strong>Decomposition Temperature</strong></td>
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<tr>
<td><strong>Viscosity</strong></td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
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<tr>
<td><strong>Global Warming Potential (GWP)</strong></td>
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<tr>
<td><strong>Refractive index</strong></td>
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<td><strong>Particle size</strong></td>
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<tr>
<td><strong>Molecular weight</strong></td>
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<tr>
<td><strong>Volutility</strong></td>
</tr>
<tr>
<td><strong>Saturation concentration</strong></td>
</tr>
</tbody>
</table>
# Tergo™ Chlorine-Free Cleaning Fluid - Boil

## Critical temperature
No information available.

### 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Reactivity</th>
<th>See the other subsections of this section for further details.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>No potentially hazardous reactions known.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>There are no known conditions that are likely to result in a hazardous situation.</td>
</tr>
<tr>
<td>Materials to avoid</td>
<td>No specific material or group of materials is likely to react with the product to produce a hazardous situation.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapors.</td>
</tr>
</tbody>
</table>

## 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity - oral

<table>
<thead>
<tr>
<th>Notes (oral LD₅₀)</th>
<th>Acute Tox. 4 - H302 Harmful if swallowed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE oral (mg/kg)</td>
<td>1,107.75</td>
</tr>
</tbody>
</table>

#### Acute toxicity - dermal

<table>
<thead>
<tr>
<th>Notes (dermal LD₅₀)</th>
<th>Based on available data the classification criteria are not met.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE dermal (mg/kg)</td>
<td>4,705.88</td>
</tr>
</tbody>
</table>

#### Acute toxicity - inhalation

<table>
<thead>
<tr>
<th>Notes (inhalation LC₅₀)</th>
<th>Based on available data the classification criteria are not met.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE inhalation (vapours mg/l)</td>
<td>275.0</td>
</tr>
</tbody>
</table>

#### Skin corrosion/irritation

<table>
<thead>
<tr>
<th>Animal data</th>
<th>Irritating.</th>
</tr>
</thead>
</table>

#### Serious eye damage/irritation

<table>
<thead>
<tr>
<th>Animal data</th>
<th>Eye Dam. 1 - H318 Causes serious eye damage.</th>
</tr>
</thead>
</table>

#### Respiratory sensitization

<table>
<thead>
<tr>
<th>Animal data</th>
<th>Based on available data the classification criteria are not met.</th>
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</table>

#### Skin sensitization

<table>
<thead>
<tr>
<th>Animal data</th>
<th>Based on available data the classification criteria are not met.</th>
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</table>

#### Germ cell mutagenicity

<table>
<thead>
<tr>
<th>Animal data</th>
<th>Based on available data the classification criteria are not met.</th>
</tr>
</thead>
</table>

#### Carcinogenicity

<table>
<thead>
<tr>
<th>Animal data</th>
<th>Based on available data the classification criteria are not met.</th>
</tr>
</thead>
</table>

#### IARC carcinogenicity

<table>
<thead>
<tr>
<th>Animal data</th>
<th>Contains a substance/group of substances which may cause cancer. IARC Group 1 Carcinogenic to humans.</th>
</tr>
</thead>
</table>
Tergo™ Chlorine-Free Cleaning Fluid - Boil

Reproductive toxicity

Reproductive toxicity - fertility
May damage fertility.

Reproductive toxicity - development
May damage the unborn child.

Specific target organ toxicity - single exposure

STOT - single exposure
STOT SE 3 - H335, H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Target organs
Respiratory system, lungs Central nervous system

Specific target organ toxicity - repeated exposure

STOT - repeated exposure
Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard
Based on available data the classification criteria are not met.

General information

Avoid contact during pregnancy/while nursing. May damage fertility. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

A single exposure may cause the following adverse effects: Irritation of nose, throat and airway. Difficulty in breathing. Coughing. Vapors may cause headache, fatigue, dizziness and nausea. Central nervous system depression.

Ingestion

May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.

Skin Contact

Redness. Irritating to skin.

Eye contact

Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

Route of exposure

Ingestion Inhalation Skin and/or eye contact

Target Organs
Central nervous system Respiratory system, lungs

Toxicological information on ingredients.

**Proprietary Fluorocarbon**

### Acute toxicity - oral

<table>
<thead>
<tr>
<th>Acute toxicity oral (LD₅₀ mg/kg)</th>
<th>2,001.0</th>
</tr>
</thead>
</table>

**Species**
Rat

**Notes (oral LD₅₀)**
Based on available data the classification criteria are not met.

<table>
<thead>
<tr>
<th>ATE oral (mg/kg)</th>
<th>2,001.0</th>
</tr>
</thead>
</table>

### Acute toxicity - dermal

<table>
<thead>
<tr>
<th>Acute toxicity dermal (LD₅₀ mg/kg)</th>
<th>2,001.0</th>
</tr>
</thead>
</table>

**Species**
Rat

**Notes (dermal LD₅₀)**
Based on available data the classification criteria are not met.

<table>
<thead>
<tr>
<th>ATE dermal (mg/kg)</th>
<th>2,001.0</th>
</tr>
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</table>

### Acute toxicity - inhalation
Tergo™ Chlorine-Free Cleaning Fluid - Boil

Acute toxicity inhalation (LC₅₀ vapours mg/l) 24.8
Species Rat
Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.
ATE inhalation (vapours mg/l) 24.8
Skin corrosion/irritation
Animal data Based on available data the classification criteria are not met.
Serious eye damage/irritation
Serious eye damage/irritation Causes serious eye irritation.
Respiratory sensitization
Respiratory sensitization Based on available data the classification criteria are not met.
Skin sensitization
Skin sensitization Based on available data the classification criteria are not met.
Germ cell mutagenicity
Genotoxicity - in vitro Based on available data the classification criteria are not met.
Carcinogenicity
Carcinogenicity Based on available data the classification criteria are not met.
IARC carcinogenicity None of the ingredients are listed or exempt.
Reproductive toxicity
Reproductive toxicity - fertility Based on available data the classification criteria are not met.
Reproductive toxicity - development Based on available data the classification criteria are not met.
Specific target organ toxicity - single exposure
STOT - single exposure STOT SE 3 - H336 May cause drowsiness or dizziness.
Target organs Central nervous system
Specific target organ toxicity - repeated exposure
STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard
Aspiration hazard Based on available data the classification criteria are not met.
General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation A single exposure may cause the following adverse effects: Headache. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic effect.
Ingestion No specific symptoms known.
**Tergo™ Chlorine-Free Cleaning Fluid - Boil**

**Skin Contact**
No specific symptoms known.

**Eye contact**
Irritating to eyes.

**Route of exposure**
Ingestion Inhalation Skin and/or eye contact

**Target Organs**
Central nervous system

**Proprietary A**

**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 550.0

Species Rat

ATE oral (mg/kg) 550.0

**Acute toxicity - dermal**

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rabbit

ATE dermal (mg/kg) 2,000.0

**Acute toxicity - inhalation**

Acute toxicity inhalation (LC₅₀ vapours mg/l) 3,551.0

Species Rabbit

ATE inhalation (vapours mg/l) 3,551.0

**Proprietary B**

**Acute toxicity - oral**

ATE oral (mg/kg) 500.0

**Acute toxicity - inhalation**

Acute toxicity inhalation (LC₅₀ vapours mg/l) 4.178

ATE inhalation (vapours mg/l) 11.0

**METHANOL**

**Acute toxicity - oral**

Notes (oral LD₅₀) Acute Tox. 3 - H301 Toxic if swallowed.

ATE oral (mg/kg) 100.0

**Acute toxicity - dermal**

Notes (dermal LD₅₀) Acute Tox. 3 - H311 Toxic in contact with skin.

ATE dermal (mg/kg) 300.0

**Acute toxicity - inhalation**
## Tergo™ Chlorine-Free Cleaning Fluid - Boil

**Notes (inhalation LC₅₀)**

<table>
<thead>
<tr>
<th>Acute Tox. 3 - H331 Toxic if inhaled.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>ATE inhalation (vapours mg/l)</th>
<th>3.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE inhalation (dusts/mists mg/l)</td>
<td>0.5</td>
</tr>
</tbody>
</table>

### Skin corrosion/irritation

- **Animal data**
  - Based on available data the classification criteria are not met.

### Serious eye damage/irritation

- **Serious eye damage/irritation**
  - Based on available data the classification criteria are not met.

### Respiratory sensitization

- **Respiratory sensitization**
  - Based on available data the classification criteria are not met.

### Skin sensitization

- **Skin sensitization**
  - Based on available data the classification criteria are not met.

### Germ cell mutagenicity

- **Genotoxicity - In vitro**
  - Based on available data the classification criteria are not met.

### Carcinogenicity

- **Carcinogenicity**
  - Based on available data the classification criteria are not met.

- **IARC carcinogenicity**
  - None of the ingredients are listed or exempt.

### Reproductive toxicity

- **Reproductive toxicity - fertility**
  - Based on available data the classification criteria are not met.

- **Reproductive toxicity - development**
  - Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

- **STOT - single exposure**
  - STOT SE 1 - H370 Causes damage to organs.

### Specific target organ toxicity - repeated exposure

- **STOT - repeated exposure**
  - Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

- **Aspiration hazard**
  - Based on available data the classification criteria are not met.

### General information

- **The severity of the symptoms described will vary dependent on the concentration and the length of exposure.**

### Inhalation

- **A single exposure may cause the following adverse effects:** Drowsiness, dizziness, disorientation, vertigo. Unconsciousness. High concentrations may be fatal.

### Ingestion

- **May cause stomach pain or vomiting. May cause severe internal injury.**

### Skin Contact

- **A single exposure may cause the following adverse effects:** Pain.

### Eye contact

- **No specific symptoms known.**
Tergo™ Chlorine-Free Cleaning Fluid - Boil

Route of exposure
Ingestion Inhalation Skin and/or eye contact

Target Organs
No specific target organs known.

12. Ecological information

Ecological information on ingredients.

Proprietary Fluorocarbon

Ecotoxicity
Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

METHANOL

Ecotoxicity
Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

Toxicity
Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

Proprietary Fluorocarbon

Toxicity
Based on available data the classification criteria are not met.

Acute aquatic toxicity
Acute toxicity - aquatic invertebrates
EC₅₀, 48 hours: >160 mg/l, Daphnia magna

Proprietary A

Acute aquatic toxicity
Acute toxicity - fish
LC₅₀, 96 hours: 5.6 mg/l, Fish

Acute toxicity - aquatic invertebrates
EC₅₀, 48 hours: 2.8 mg/l, Daphnia magna

METHANOL

Toxicity
Based on available data the classification criteria are not met.

Acute aquatic toxicity
Acute toxicity - fish
LC₅₀, 96 hours: >100 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates
EC₅₀, 48 hours: >10000 mg/l, Daphnia magna

Persistence and degradability

The degradability of the product is not known.

Ecological information on ingredients.

Proprietary Fluorocarbon

Persistence and degradability
The degradability of the product is not known.

METHANOL
Tergo™ Chlorine-Free Cleaning Fluid - Boil

Persistence and degradability
The degradability of the product is not known.

Bioaccumulative potential
Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

Proprietary Fluorocarbon

Bio-Accumulative Potential No data available on bioaccumulation.
Partition coefficient log Pow: 2.18

Proprietary A
Partition coefficient No information available.

Proprietary B
Partition coefficient log Pow: 1.05

METHANOL

Bio-Accumulative Potential No data available on bioaccumulation.
Partition coefficient : -0.77

Mobility in soil
Mobility No data available.

Ecological information on ingredients.

Proprietary Fluorocarbon

Mobility No data available.

METHANOL

Mobility No data available.

Other adverse effects
Other adverse effects None known.

Ecological information on ingredients.

Proprietary Fluorocarbon

Other adverse effects None known.

METHANOL

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods
Tergo™ Chlorine-Free Cleaning Fluid - Boil

General information
The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods
Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

14. Transport information

General
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

UN Number
UN No. (International) Not applicable.
UN No. (DOT) Not applicable.

UN proper shipping name
Proper shipping name (International) Not applicable.
Proper shipping name (DOT) Not applicable.

Transport hazard class(es)
Transport Labels (International) No transport warning sign required.

DOT transport labels
No transport warning sign required.

Packing group
Packing group (International) Not applicable.
DOT packing group Not applicable.

Environmental hazards
Environmentally Hazardous Substance No.

Special precautions for user
Not applicable.

DOT reportable quantity Not applicable.

DOT TIH Zone Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US Federal Regulations
Tergo™ Chlorine-Free Cleaning Fluid - Boil

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
The following ingredients are listed or exempt:
METHANOL
Final CERCLA RQ: 5000(2270) pounds (Kilograms)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are listed or exempt.

SARA 313 Emission Reporting
The following ingredients are listed or exempt:
METHANOL
1.0 %

CAA Accidental Release Prevention
None of the ingredients are listed or exempt.

FDA - Essential Chemical
None of the ingredients are listed or exempt.

FDA - Precursor Chemical
None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories
The following ingredients are listed or exempt:
Proprietary A
Acute
Proprietary B
Acute
Chronic

OSHA  Highly Hazardous Chemicals
None of the ingredients are listed or exempt.

US State Regulations
California Proposition 65 Carcinogens and Reproductive Toxins
The following ingredients are listed or exempt:
METHANOL
Developmental toxin.

California Air Toxics "Hot Spots" (A-I)
The following ingredients are listed or exempt:
METHANOL

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances
The following ingredients are listed or exempt:
METHANOL
Tergo™ Chlorine-Free Cleaning Fluid - Boil

Massachusetts "Right To Know" List
The following ingredients are listed or exempt:
METHANOL
Proprietary B

Rhode Island "Right To Know" List
The following ingredients are listed or exempt:
METHANOL

Minnesotan "Right To Know" List
The following ingredients are listed or exempt:
METHANOL
Proprietary B

New Jersey "Right To Know" List
The following ingredients are listed or exempt:
METHANOL

Pennsylvania "Right To Know" List
The following ingredients are listed or exempt:
METHANOL
Proprietary B

Inventories
Canada - DSL/NDSL
DSL

US - TSCA
Present.

US - TSCA 12(b) Export Notification
The following ingredients are listed or exempt:
Proprietary Fluorocarbon

16. Other information

Classification abbreviations and acronyms
Acute Tox. = Acute toxicity
Eye Dam. = Serious eye damage
Repr. = Reproductive toxicity
Skin Irrit. = Skin irritation
STOT SE = Specific target organ toxicity-single exposure
Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Training advice
Only trained personnel should use this material.

Revision date
3/22/2019

Revision
25

Supersedes date
11/20/2018

SDS No.
BULK - TCFCF01EU

SDS status
Approved.
Tergo™ Chlorine-Free Cleaning Fluid - Boil

Hazard statements in full

H225 Highly flammable liquid and vapor.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H360 May damage fertility or the unborn child.
H370 Causes damage to organs.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.