SAFETY DATA SHEET
MicroCare Synthetic Grease Cleaner

1. Identification

Product identifier

Product name MicroCare Synthetic Grease Cleaner

Product number M2S-SGCD, M2S-SGCP, M2S-SGCL

Internal identification Prototype 9-161-1

Synonyms; trade names MCC-SGCD, MCC-SGCP, MCC-SGCL

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

Supplier MICROCARE CORPORATION

Manufacturer MICROCARE CORPORATION
595 John Downey Drive
New Britain, CT 06051
United States of America
CAGE: OATV9
Tel: +1 800 638 0125, +1 860-827-0626
Fax: +1 860-893-1930
techsupport@microcare.com

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 - H332 Skin Irrit. 2 - H315 Eye Dam. 1 - H318

Environmental hazards Aquatic Chronic 3 - H412

Human health Irritating to eyes.

Label elements

Pictogram

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1/12
MicroCare Synthetic Grease Cleaner

Signal word: Danger

Hazard statements:
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- 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.
- 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.
- P314 Get medical advice/ attention if you feel unwell.
- 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:
- trans-1,2-DICHLOROETHYLENE, Proprietary

Other hazards:
This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>trans-1,2-DICHLOROETHYLENE</th>
<th>60-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 156-60-5</td>
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</tbody>
</table>

Classification
- Flam. Liq. 2 - H225
- Acute Tox. 4 - H332
- Aquatic Chronic 3 - H412

Proprietary Fluorocarbon
- 5-10%
- CAS number: Proprietary

Classification
- Aquatic Chronic 4 - H413

Proprietary
- 1-5%
- CAS number: Proprietary

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

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

Composition

4. First-aid measures
MicroCare Synthetic Grease Cleaner

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. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.

Skin Contact
Rinse with water.

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: Headache. Exhaustion and weakness.

Ingestion
May cause irritation.

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

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
MicroCare Synthetic Grease Cleaner

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

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. Avoid discharge to the aquatic environment. 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.
MicroCare Synthetic Grease Cleaner

Storage class
- Miscellaneous hazardous material storage.

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

8. Exposure controls/Personal protection

Control parameters

Occupational exposure limits
trans-1,2-DICHLOROETHYLENE
Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 793 mg/m³
ACGIH = American Conference of Governmental Industrial Hygienists.

Additional Occupational Exposure Limits

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 repeated or prolonged 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.

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.

9. Physical and chemical properties

Information on basic physical and chemical properties
## MicroCare Synthetic Grease Cleaner

**Appearance**
Clear liquid.

**Color**
Colorless.

**Odor**
Slight.

**Odor threshold**
No information available.

**pH**
Neutral

**Melting point**
No information available.

**Initial boiling point and range**
No information available.

**Flash point**
The product is not flammable.

**Evaporation rate**
No information available.

**Evaporation factor**
No information available.

**Upper/lower flammability or explosive limits**
Not applicable.

**Other flammability**
The product is not flammable.

**Vapor pressure**
No information available.

**Vapor density**
No information available.

**Relative density**
No information available.

**Bulk density**
Not applicable.

**Solubility(ies)**
No information available.

**Partition coefficient**
No information available.

**Auto-ignition temperature**
No information available.

**Decomposition Temperature**
No information available.

**Viscosity**
No information available.

**Explosive properties**
No information available.

**Refractive index**
No information available.

**Particle size**
No information available.

**Molecular weight**
Not applicable.

**Volutiity**
100%

**Saturation concentration**
No information available.

**Critical temperature**
No information available.

**Volatile organic compound**
No information available.

**Flammability**
The product is not flammable.

### 10. Stability and reactivity

**Reactivity**
See the other subsections of this section for further details.

**Stability**
Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
MicroCare Synthetic Grease Cleaner

Possibility of hazardous reactions
No potentially hazardous reactions known.

Conditions to avoid
There are no known conditions that are likely to result in a hazardous situation.

Materials to avoid
No specific material or group of materials is likely to react with the product to produce a hazardous situation.

Hazardous decomposition products
Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapors.

11. Toxicological information

Information on toxicological effects

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

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

Acute toxicity - inhalation
Notes (inhalation LC₅₀)
Acute Tox. 4 - H332 Harmful if inhaled.

ATE Inhalation (vapours mg/l) 12.6

Skin corrosion/irritation
Animal data
Irritating.

Serious eye damage/irritation
Eye Dam. 1 - H318 Causes serious eye damage.

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

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
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
Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

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

Aspiration hazard
Based on available data the classification criteria are not met.
MicroCare Synthetic Grease Cleaner

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. Exhaustion and weakness.

Ingestion
May cause irritation.

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
No specific target organs known.

Toxicological information on ingredients.

trans-1,2-DICHLOROETHYLENE

Other health effects
There is no evidence that the product can cause cancer.

Acute toxicity - inhalation
ATE inhalation (vapours mg/l) 11.0

Proprietary Fluorocarbon

Acute toxicity - oral
Acute toxicity oral (LD₅₀ mg/kg) 5,000.0
Species Rat
ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal
Acute toxicity dermal (LD₅₀ mg/kg) 5,000.0
Species Rat
ATE dermal (mg/kg) 5,000.0

Acute toxicity - inhalation
Acute toxicity inhalation (LC₅₀ vapours mg/l) 222.15
Species Rat
ATE inhalation (vapours mg/l) 222.15

Skin corrosion/irritation
Animal data Not irritating. Rabbit
Human skin model test Data lacking.
Extreme pH Not applicable. Not corrosive to skin.
MicroCare Synthetic Grease Cleaner

Serious eye damage/irritation
Serious eye damage/irritation
Not irritating. Rabbit

Respiratory sensitization
Respiratory sensitization
Data lacking.

Skin sensitization
Skin sensitization
Not sensitizing. - Guinea pig: Not sensitizing.

Germ cell mutagenicity
Genotoxicity - In vitro
This substance has no evidence of mutagenic properties.

Genotoxicity - In vivo
This substance has no evidence of mutagenic properties.

Carcinogenicity
Carcinogenicity
Does not contain any substances known to be carcinogenic.

IARC carcinogenicity
Not listed.

NTP carcinogenicity
Not listed.

OSHA Carcinogenicity
Not listed.

Reproductive toxicity
Reproductive toxicity - fertility
No evidence of reproductive toxicity in animal studies.

Skin Contact
Skin irritation should not occur when used as recommended. May cause defatting of the skin but is not an irritant.

Eye contact
May cause eye irritation.

Acute and chronic health hazards
There is no evidence that the product can cause cancer.

12. Ecological information

Ecological information on ingredients.

trans-1,2-DICHLOROETHYLENE

Ecotoxicity
Low acute toxicity to aquatic organisms.

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

Ecological information on ingredients.

trans-1,2-DICHLOROETHYLENE

Acute aquatic toxicity

Acute toxicity - fish
LC₅₀, 96 hours: 1350 mg/l, Fish

Acute toxicity - aquatic invertebrates
EC₅₀, 48 hours: 220 mg/l, Daphnia magna

Proprietary Fluorocarbon

Acute aquatic toxicity
MicroCare Synthetic Grease Cleaner

Acute toxicity - fish  
$LC_{90}$, 96 hours: >0.096 mg/l, Oryzias latipes (Red killifish)

Acute toxicity - aquatic invertebrates  
$LC_{90}$, 48 hours: >0.157 mg/l, Daphnia magna

Acute toxicity - aquatic plants  
$EC_{50}$, 72 hours: >0.000477 mg/l, Pseudokirchneriella subcapitata

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

Ecological information on ingredients.  

**Proprietary Fluorocarbon**

**Biodegradation**  
Inherently biodegradable.

**Bioaccumulative potential**

Bio-Accumulative Potential  
No data available on bioaccumulation.

Partition coefficient  
No information available.

Ecological information on ingredients.

**trans-1,2-DICHLOROETHYLENE**

**Bio-Accumulative Potential**  
Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

**Proprietary Fluorocarbon**

**Bio-Accumulative Potential**  
BCF: 1990, Cyprinus carpio (Common carp)

Partition coefficient  
Pow: 4.9

**Mobility in soil**

Mobility  
No data available.

Ecological information on ingredients.

**trans-1,2-DICHLOROETHYLENE**

**Mobility**  
The product has poor water-solubility.

Other adverse effects  
None known.

13. Disposal considerations

Waste treatment methods  
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.
MicroCare Synthetic Grease Cleaner

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).

15. Regulatory information

US Federal Regulations

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:

*trans*-1,2-DICHLOROETHYLENE
Final CERCLA RQ: 1000(454) pounds (Kilograms)

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

SARA 313 Emission Reporting
None of the ingredients are listed or exempt.

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
None of the ingredients are listed or exempt.

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

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are listed or exempt.

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

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:

*trans*-1,2-DICHLOROETHYLENE
MicroCare Synthetic Grease Cleaner

Massachusetts "Right To Know" List
The following ingredients are listed or exempt:
trans-1,2-DICHLOROETHYLENE

Rhode Island "Right To Know" List
None of the ingredients are listed or exempt.

Minnesota "Right To Know" List
None of the ingredients are listed or exempt.

New Jersey "Right To Know" List
None of the ingredients are listed or exempt.

Pennsylvania "Right To Know" List
The following ingredients are listed or exempt:
trans-1,2-DICHLOROETHYLENE

Inventories
Canada - DSL/NDSL
DSL

US - TSCA
Present.

US - TSCA 12(b) Export Notification
Not listed.

16. Other information

<table>
<thead>
<tr>
<th>Classification abbreviations and acronyms</th>
<th>Acute Tox. = Acute toxicity</th>
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<tbody>
<tr>
<td></td>
<td>Eye Dam. = Serious eye damage</td>
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<tr>
<td></td>
<td>Skin Irrit. = Skin irritation</td>
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<tr>
<td></td>
<td>Aquatic Chronic = Hazardous to the aquatic environment (chronic)</td>
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</table>

<table>
<thead>
<tr>
<th>Training advice</th>
<th>Only trained personnel should use this material.</th>
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<tr>
<th>Revision date</th>
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<tr>
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<td>23</td>
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<td>SDS No.</td>
<td>BULK - SGC</td>
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</table>

Hazard statements in full
H225 Highly flammable liquid and vapor.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

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.