



## SAFETY DATA SHEET

### Tergo Metal Cleaning Fluid

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

##### 1.1. Product identifier

<b>Product name</b>	Tergo Metal Cleaning Fluid
<b>Product number</b>	MCC-TMCFEUP, MCC-TMCFEUGL, MCC-TMCFEUGG, MCC-TMCFEUD, MCC-TMCFEUG, MCC-TMCFEUHGG
<b>Synonyms; trade names</b>	Prototype 10-122-2

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

<b>Identified uses</b>	Cleaning agent.
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##### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	MICROCARE EUROPE BVBA VEKESTRAAT 29 B11 INDUSTRIEZONE 'T SAS 1910 KAMPENHOUT, Belgium Phone +32.2.251.95.05 Fax +32.2.400.96.39
<b>Manufacturer</b>	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: +1 860-827-8105 techsupport@microcare.com

##### 1.4. Emergency telephone number

<b>Emergency telephone</b>	CHEMTREC UK (London) +(44)-870-8200418 +1 703-741-5970 (from anywhere in the world)
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#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

<b>Physical hazards</b>	Not Classified
<b>Health hazards</b>	Acute Tox. 4 - H332
<b>Environmental hazards</b>	Aquatic Chronic 3 - H412
<b>Human health</b>	See Section 11 for additional information on health hazards. May be slightly irritating to eyes. Splashes in the eyes may cause redness and irritation. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
<b>Physicochemical</b>	Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers.

## Tergo Metal Cleaning Fluid

### 2.2. Label elements

#### Pictogram



#### Signal word

Warning

#### Hazard statements

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P261 Avoid breathing vapour/ spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTRE/doctor if you feel unwell.

P501 Dispose of contents/ container in accordance with national regulations.

#### Supplemental label information

EUH210 Safety data sheet available on request.

RCH001a For use in industrial installations only.

#### Contains

trans-DICHLOROETHYLENE

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>trans-DICHLOROETHYLENE</b>			<b>60-100%</b>
CAS number: 156-60-5	EC number: 205-860-2	REACH registration number: 05-2114285321-54-0000	
<b>Classification</b>			
Flam. Liq. 2 - H225			
Acute Tox. 4 - H332			
Aquatic Chronic 3 - H412			
<b>Proprietary A</b>			<b>1-5%</b>
CAS number: Proprietary	EC number: Proprietary	REACH registration number: Proprietary	
<b>Classification</b>			
Aquatic Chronic 3 - H412			
<b>Proprietary B</b>			<b>1-5%</b>
CAS number: Proprietary	EC number: Proprietary	REACH registration number: Proprietary	
<b>Classification</b>			
Aquatic Chronic 3 - H412			

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

#### Composition comments

The data shown are in accordance with the latest EC Directives.

#### Composition

## Tergo Metal Cleaning Fluid

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Place unconscious person on the side in the recovery position and ensure breathing can take place. If breathing stops, provide artificial respiration. Keep out of the reach of children.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Consult a physician for specific advice.
<b>Skin contact</b>	Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Consult a physician for specific advice.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
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#### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours. Closed containers can burst violently when heated, due to excess pressure build-up.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Hydrogen chloride (HCl).

#### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Containers close to fire should be removed or cooled with water.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Warn everybody of potential hazards and evacuate if necessary. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.
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#### 6.2. Environmental precautions

<b>Environmental precautions</b>	Contain spillage with sand, earth or other suitable non-combustible material. Avoid release to the environment.
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#### 6.3. Methods and material for containment and cleaning up

## Tergo Metal Cleaning Fluid

**Methods for cleaning up** Absorb spillage with non-combustible, absorbent material. Do not discharge into drains or watercourses or onto the ground. Contain and absorb spillage with sand, earth or other non-combustible material. Collect spillage with a shovel and broom, or similar and reuse, if possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### 6.4. Reference to other sections

**Reference to other sections** See Section 11 for additional information on health hazards.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Provide adequate ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep out of the reach of children.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

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

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### trans-DICHLOROETHYLENE

Long-term exposure limit (8-hour TWA): ACGIH

Short-term exposure limit (15-minute): ACGIH 200 ppm

ACGIH = American Conference of Governmental Industrial Hygienists.

#### Additional Occupational Exposure Limits

**Ingredient comments** ACGIH = US Standard. WEL = Workplace Exposure Limits

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

No specific ventilation requirements. This product must not be handled in a confined space without adequate ventilation.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

## Tergo Metal Cleaning Fluid

<b>Other skin and body protection</b>	Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.
<b>Hygiene measures</b>	No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. When using do not eat, drink or smoke.
<b>Respiratory protection</b>	Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. In confined or poorly-ventilated spaces, a supplied-air respirator must be worn.

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Water-white.
<b>Odour</b>	Slight. Ether.
<b>Odour threshold</b>	No information available.
<b>pH</b>	No information available.
<b>Melting point</b>	No information available.
<b>Flash point</b>	The product is not flammable. Tag Closed Cup (ASTM D 56)
<b>Evaporation rate</b>	No information available.
<b>Evaporation factor</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 7 %(V) Upper flammable/explosive limit: 15.6 %(V)
<b>Other flammability</b>	No information available.
<b>Relative density</b>	1.29
<b>Bulk density</b>	No information available.
<b>Solubility(ies)</b>	Slightly soluble in water.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	No information available.

#### 9.2. Other information

<b>Refractive index</b>	No information available.
<b>Particle size</b>	No information available.
<b>Molecular weight</b>	No information available.
<b>Saturation concentration</b>	No information available.
<b>Critical temperature</b>	No information available.
<b>Volatile organic compound</b>	No information available.

## Tergo Metal Cleaning Fluid

UDF Phrase 1                      The product is not flammable.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity**                      There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

**Stability**                        Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions**                      Will not polymerise.

#### 10.4. Conditions to avoid

**Conditions to avoid**                      Keep away from heat, sparks and open flame. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.

#### 10.5. Incompatible materials

**Materials to avoid**                      Alkali metals. Alkaline earth metals. Powdered metal.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products**                      Heating may generate the following products: Toxic and corrosive gases or vapours. Halogenated hydrocarbons. Hydrogen fluoride (HF). Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Hydrogen chloride (HCl).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

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

#### Acute toxicity - inhalation

**ATE inhalation (vapours mg/l)**    11.96

**Inhalation**                              Vapours may irritate throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing. Headache. Dizziness.

**Ingestion**                                Harmful if swallowed. Irritating. Symptoms following overexposure may include the following: Nausea, vomiting. Stomach pain.

**Skin contact**                            Liquid may irritate skin.

**Eye contact**                             Irritating to eyes.

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

**Target organs**                            Eyes Respiratory system, lungs Skin

**Medical symptoms**                      Product has a defatting effect on skin. May cause allergic contact eczema. In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.

#### Toxicological information on ingredients.

#### trans-DICHLOROETHYLENE

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

## Tergo Metal Cleaning Fluid

### Proprietary B

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,000.0

Species Rat

ATE oral (mg/kg) 5,000.0

#### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 5,000.0

Species Rat

ATE dermal (mg/kg) 5,000.0

#### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 114.0

Species Rat

ATE inhalation (vapours mg/l) 114.0

#### Skin corrosion/irritation

Animal data Not irritating. Rabbit

Human skin model test Data lacking.

Extreme pH Not applicable. Not corrosive to skin.

#### Serious eye damage/irritation

Serious eye damage/irritation Not irritating. Rabbit

#### Respiratory sensitisation

Respiratory sensitisation Data lacking.

#### Skin sensitisation

Skin sensitisation Not sensitising. - Guinea pig: Not sensitising.

#### 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.

#### Reproductive toxicity

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

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<b>Skin contact</b>	Skin irritation should not occur when used as recommended. May cause defatting of the skin but is not an irritant.
<b>Eye contact</b>	May cause eye irritation.
<b>Acute and chronic health hazards</b>	There is no evidence that the product can cause cancer.

### SECTION 12: Ecological Information

**Ecotoxicity** There are no data on the ecotoxicity of this product.

#### Ecological information on ingredients.

##### trans-DICHLOROETHYLENE

**Ecotoxicity** Low acute toxicity to aquatic organisms.

#### 12.1. Toxicity

**Toxicity** No data available.

#### Ecological information on ingredients.

##### trans-DICHLOROETHYLENE

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 1350 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 220 mg/l, Daphnia magna

##### Proprietary B

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >0.096 mg/l, Oryzias latipes (Red killifish)

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 48 hours: >0.157 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: >0.000477 mg/l, Pseudokirchneriella subcapitata

#### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

#### Ecological information on ingredients.

##### Proprietary B

**Biodegradation** Inherently biodegradable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** No information available.

#### Ecological information on ingredients.

##### trans-DICHLOROETHYLENE



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**Bioaccumulative potential** Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

### Proprietary B

**Bioaccumulative potential** BCF: 1990, Cyprinus carpio (Common carp)

**Partition coefficient** Pow: 4.9

#### 12.4. Mobility in soil

**Mobility** The product contains volatile substances which may spread in the atmosphere.

#### Ecological information on ingredients.

### trans-DICHLOROETHYLENE

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

#### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

#### 12.6. Other adverse effects

**Other adverse effects** The product contains a substance or substances that will contribute to global warming (greenhouse effect). The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**General information** Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Waste class** Aucune information disponible

### **SECTION 14: Transport information**

**General** Requirements for marking and labeling of package varies depending on mode of transport. If uncertain of proper markings and labeling, call MicroCare for assistance.

#### 14.1. UN number

**UN No. (IMDG)** Not classified as dangerous for transport.

#### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** Not classified as dangerous for transport.

**Proper shipping name (IMDG)** Not classified as dangerous for transport.

**Proper shipping name (ADN)** Not classified as dangerous for transport.

#### 14.3. Transport hazard class(es)

Not applicable. No information required.

#### **Transport labels**

No transport warning sign required.

## Tergo Metal Cleaning Fluid

### 14.4. Packing group

No information required. Not applicable.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

**Transport in bulk according to** No information required.

**Annex II of MARPOL 73/78**

**and the IBC Code**

## SECTION 15: Regulatory information

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

**EU legislation**

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	09/04/2018
<b>Revision</b>	60
<b>Supersedes date</b>	09/04/2018
<b>SDS number</b>	BULK - TMCFEU
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. H332 Harmful if inhaled. 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.