

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

### Revision Number 1.02 Revision date 20/10/2023

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

1.1. Product identifier	
Product Name	TERGO HEAVY DEGREASING FLUID
Synonyms	Prototype 18-70-1
Product Code(s)	MCC-THDFD, MCC-THDFP, MCC-THDFG, MCC-THDFGL
Safety data sheet number	THDF
Unique Formula Identifier (UFI)	JY30-EOAA-KOOM-84FJ
Pure substance/mixture	Mixture
1.2. Relevant identified uses of the	substance or mixture and uses advised against
Recommended use	Cleaning agent For industrial use only
Uses advised against	No information available
1.3. Details of the supplier of the sa	afety data sheet
Manufacturer MicroCare UK Ltd Unit 4, Whitehall Court Leeds LS12 5SN United Kingdom Tel: +44 (0) 113 3609019 Email: MCCEurope@MicroCare.com For further information, please contact	
Contact Point	el: +44 (0) 113 3609019
E-mail address	mcceurope@microcare.com
1.4. Emergency telephone number	_
Emergency Telephone	INFOTRAC +44 330 027 0156 (UK) 1-352-323-3500 (from anywhere in the world)

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008	
Acute toxicity - Inhalation (Vapours)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity — single exposure	Category 3 - (H336)
Category 3 Narcotic effects	
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements



Signal word Warning Hazard statements H319 - Causes serious eye irritation H332 - Harmful if inhaled H336 - May cause drowsiness or dizziness H412 - Harmful to aquatic life with long lasting effects EUH210 - Safety data sheet available on request

#### Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 - Avoid release to the environment.
P280 - Wear eye protection/ face protection.
P312 - Call a POISON CENTER or doctor if you feel unwell.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P501 - Dispose of contents/ container to an approved waste disposal plant.
Unknown acute toxicity

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

#### Additional information

This product requires tactile warnings if supplied to the general public.

#### 2.3. Other hazards

No information available.

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration	EC No (EU	Classification according	Specific	M-Factor	M-Factor
		number	Index No)	to Regulation (EC) No.	concentration		(long-term)
				1272/2008 [CLP]	limit (SCL)		
trans-1,2-DICHLOR	50 -	01-2120093504-55-00	205-860-2	Acute Tox. 4 (H332)	-	-	-
OETHYLENE	<100%	03		Aquatic Chronic 3			
156-60-5				(H412)			
				Flam. Liq. 2 (H225)			
HEPTAFLUOROCY	5 - <10%	02-2120746221-65-00	430-710-1	Aquatic Chronic 3	-	-	-
CLOPENTANE		00		(H412)			
15290-77-4							
(Z)-1-chloro-2,3,3-tri	2.5 - <5%	01-2120811806-55-00	824-458-3	Aquatic Chronic 3	-	-	-
fluoropropene		00		(H412)			
1263679-68-0				STOT SE 3 (H336)			

(E)-1-chloro-2,3,3-tri 0.5 - <1%	No data available	-	Aquatic Chronic 3	-	-	-
fluoropropene			(H412)			
1263679-71-5			STOT SE 3 (H336)			

#### Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate No information available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.				
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. If symptoms persist, call a doctor. If breathing has stopped, give artificial respiration. Get medical attention immediately.				
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.				
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.				
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.				
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapours or mists. Use personal protective equipment as required. See section 8 for more information.				
4.2. Most important symptoms and	effects, both acute and delayed_				
Symptoms	May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Coughing and/ or wheezing. Difficulty in breathing.				
Effects of Exposure	No information available.				
4.3. Indication of any immediate medical attention and special treatment needed					
Note to doctors	Treat symptomatically.				

# SECTION 5: Firefighting measures

<u>5.1. Extinguishing media</u> Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

# 5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the No information available. chemical

5.3. Advice for firefighters

Special protective equipment and<br/>precautions for fire-fightersFirefighters should wear self-contained breathing apparatus and full firefighting turnout gear.<br/>Use personal protection equipment.

### **SECTION 6: Accidental release measures**

6.1. Personal precautions, protectiv Personal precautions	e equipment and emergency procedures Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Avoid breathing vapours or mists.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions Environmental precautions	See Section 12 for additional Ecological Information.
6.3. Methods and material for conta Methods for containment	<u>inment and cleaning up</u> Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections Reference to other sections	See section 8 for more information. See section 13 for more information.

# SECTION 7: Handling and storage

7.1. Precautions for safe handling Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Avoid breathing vapours or mists. In case of insufficient ventilation, wear suitable respiratory equipment.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.
Storage class (TRGS 510)	LGK 10.
<u>7.3. Specific end use(s)</u> Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.

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

### 8.1. Control parameters

Exposure Limits	-					
Chemical name	European Union	Austria	Belgium	Bul	garia	Croatia
trans-1,2-DICHLOROET HYLENE 156-60-5	-	TWA: 200 ppm TWA: 790 mg/m <sup>3</sup> STEL 800 ppm STEL 3160 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 805 mg/m <sup>3</sup>		-	TWA: 200 ppm TWA: 806 mg/m <sup>3</sup> STEL: 250 ppm STEL: 1010 mg/m <sup>3</sup>
(Z)-1-chloro-2,3,3-trifluor opropene 1263679-68-0	TWA: 250 ppm	-	-		-	-
Chemical name	Cyprus	Czech Republic	Denmark	Est	onia	Finland
trans-1,2-DICHLOROET HYLENE 156-60-5	-	TWA: 800 mg/m <sup>3</sup> Ceiling: 1600 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 790 mg/m <sup>3</sup> STEL: 400 ppm STEL: 1580 mg/m <sup>3</sup>		-	TWA: 200 ppm TWA: 800 mg/m <sup>3</sup> STEL: 250 ppm STEL: 1000 mg/m <sup>3</sup>
Chemical name	France	Germany TRGS	Germany DFG		ece	Hungary
trans-1,2-DICHLOROET HYLENE 156-60-5	-	TWA: 200 ppm TWA: 800 mg/m <sup>3</sup>	-	TWA: 79 STEL: 2	200 ppm 90 mg/m <sup>3</sup> 250 ppm 000 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 800 mg/m <sup>3</sup> STEL: 400 ppm STEL: 1580 mg/m <sup>3</sup>
Chemical name	Ireland	Italy MDLPS	Italy AIDII	La	tvia	Lithuania
trans-1,2-DICHLOROET HYLENE 156-60-5	TWA: 200 ppm TWA: 790 mg/m <sup>3</sup> STEL: 600 ppm STEL: 2370 mg/m <sup>3</sup>	-	-		-	-
Chemical name	Luxembourg	Malta	Netherlands		rway	Poland
trans-1,2-DICHLOROET HYLENE 156-60-5	-	-		TWA: 100 ppm TWA: 395 mg/m <sup>3</sup> STEL: 150 ppm STEL: 493.75 mg/m <sup>3</sup>		TWA: 700 mg/m <sup>3</sup>
Chemical name	Portugal	Romania	Slovakia	Slovenia		Spain
trans-1,2-DICHLOROET HYLENE 156-60-5	TWA: 200 ppm	TWA: 50 ppm TWA: 200 mg/m <sup>3</sup> STEL: 76 ppm STEL: 300 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 800 mg/m <sup>3</sup> Ceiling: 1010 mg/m <sup>3</sup>	TWA: 200 ppm - TWA: 800 mg/m <sup>3</sup> STEL: 400 ppm STEL: 1600 mg/m <sup>3</sup>		-
Chemical name	S	weden	Switzerland			ted Kingdom
trans-1,2-DICHLOROETH E 156-60-5	IYLEN	-	TWA: 200 ppm TWA: 790 mg/m STEL: 400 ppm STEL: 1580 mg/i	x: 790 mg/m <sup>3</sup> TWA: 806 mg/m :L: 400 ppm STEL: 250 ppm		A: 806 mg/m <sup>3</sup> EL: 250 ppm

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers No information available

Derived No Effect Level (DNEL) - General Public No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls Engineering controls

No information available.

Personal	protective	equipment
Eye/face	protection	

If splashes are likely to occur, wear safety glasses with side-shields.

Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.
Environmental exposure controls	No information available.

# **SECTION 9: Physical and chemical properties**

<u>9.1. Information on basic physical a</u> Physical state Appearance Colour Odour Odour threshold	Ind chemical properties Liquid Liquid Water-white Characteristic. Solvent. No information available	
Property_	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling rang	e45 °C	None known
Flammability	No data available	Not flammable
Flammability Limit in Air		
Upper flammability or explosive	13.75	
limits		
Lower flammability or explosive	7.30	
limits		
Flash point	No data available	Will Not Flash Tag Closed Cup
Autoignition temperature	No data available	
Decomposition temperature		
pH	No data available	
pH (as aqueous solution)	No data available	
Kinematic viscosity	< 1 No data available	
Dynamic viscosity	NO GALA AVAIIADIE	
Water solubility	No data available	
Solubility(ies) Partition coefficient	No data available	
Vapour pressure	No data available	
Relative density	No data available	
Bulk density	No data available	
Liquid Density	1.27	
Relative vapour density	No data available	
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

### 9.2. Other information

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

# SECTION 10: Stability and reactivity

<u>10.1. Reactivity</u> Reactivity	No information available.	
<u>10.2. Chemical stability</u> Stability	Stable under normal conditions.	
Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge None.		
10.3. Possibility of hazardous reactions Possibility of hazardous reactions None under normal processing.		
<u>10.4. Conditions to avoid</u> Conditions to avoid	Excessive heat.	
10.5. Incompatible materials Incompatible materials	None known based on information supplied.	
	-lund -	

#### <u>10.6. Hazardous decomposition products</u> Hazardous decomposition products None known based on information supplied.

# **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness. Harmful by inhalation. (based on components).		
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.		
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.		
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if swallowed. (based on components).		
Symptoms related to the physical, chemical and toxicological characteristics			
Symptoms	May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Coughing and/ or wheezing.		

<u>Acute toxicity</u> Harmful by inhalation.

#### Numerical measures of toxicity

HEPTAFLUOROCYCLOPENTANE (Z)-1-chloro-2,3,3-trifluoropropene

The following values are calculated based on chapter 3.1 of the GHS documentATEmix (dermal)99,999.00 mg/kg			
Unknown acute toxicity			
Delayed and immediate effects as w	vell as chronic effects from	n short and long-term exposure_	
Skin corrosion/irritation	May cause skin irritation.		
Serious eye damage/eye irritation	Classification based on da	ata available for ingredients. Causes serious eye irritation.	
Respiratory or skin sensitisation	No information available.		
Germ cell mutagenicity	No information available.		
Carcinogenicity	No information available.		
Reproductive toxicity	No information available.		
STOT - single exposure	May cause drowsiness or	dizziness.	
STOT - repeated exposure	No information available.		
Aspiration hazard	No information available.		
11.2. Information on other hazards         11.2.1. Endocrine disrupting properties         Endocrine disrupting properties         No information available.			
11.2.2. Other information Other adverse effects	No information available.		
SECTION 12: Ecological information			
12.1. Toxicity			
Ecotoxicity	Harmful to aquatic life with	long lasting effects.	
Unknown aquatic toxicity	Contains 0 % of components with unknown hazards to the aquatic environment.		
12.2. Persistence and degradability Persistence and degradability 12.3. Bioaccumulative potential Bioaccumulation	_No information available.		
Component Information Chemical nat	ne	Partition coefficient	
trans-1,2-DICHLORO		2.06	

2.4 1.9

<u>12.4. Mobility in soil</u> Mobility in soil <u>12.5. Results of PBT and vPvB asse</u> PBT and vPvB assessment	No information available. <u>essment</u> The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.		
12.6. Endocrine disrupting properties			
Endocrine disrupting properties	No information available.		
<b>12.7. Other adverse effects</b> No information available.			

# SECTION 13: Disposal considerations

<u>13.1. Waste treatment methods</u> Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

# **SECTION 14: Transport information**

### IATA

	<u> </u>	
14.1	UN number or ID number	Not Regulated
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard class(es)	Not Regulated
14.4	Packing group	Not Regulated
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	Not applicable
IMDO	<u>}</u>	
14.1	UN number or ID number	Not Regulated
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard class(es)	Not Regulated
14.4	Packing group	Not Regulated
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	Not applicable
14.7	Maritime transport in bulk	Not applicable
acco	rding to IMO instruments	
ADR		
14.1	UN number or ID number	Not Regulated
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard class(es)	Not Regulated
14.4	Packing group	Not Regulated
14.5	Environmental hazards	Not applicable
14.5	Special precautions for user	Not applicable
14.0	Succial Direcautions for User	INUL AUDIICADIE

 14.6 Special precautions for user
 Not applicable

 Classification code
 Not Regulated

## SECTION 15: Regulatory information

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

#### Germany

Water hazard class (WGK)

non-hazardous to water (nwg)

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### Persistent Organic Pollutants

Not applicable

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

15.2. Chemical safety assessment	
Chemical Safety Report	No information available

# **SECTION 16: Other information**

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapour

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

H412 - Harmful to aquatic life with long lasting effects

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

### Legend Section 8: Exposure controls/personal protection

TWA Ceiling +	TWA (time-weighted average) Maximum limit value Sensitisers	STEL *	STEL (Short Term Exposure Limit) Skin designation
Classification presedure			

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used	
Acute oral toxicity	On basis of test data	

Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	On basis of test data
Acute inhalation toxicity - vapour	On basis of test data
Acute inhalation toxicity - dust/mist	On basis of test data
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	On basis of test data
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	On basis of test data
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC) European Chemicals Agency (ECHA) (ECHA\_API) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date

20/10/2023

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

End of Safety Data Sheet