SAFETY DATA SHEET

Tammermatic MICRO

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	10.06.2021

1.1. Product identifier

Product name	Tammermatic MICRO
Article no.	2010033
Product definition	Prewash detergent, winter
Information on the packaging	Type of packaging: Jug Size of packaging: 20 L Material of packaging: Plastic: HDPE Type of packaging: Bag / sack Size of packaging: 10 L Material of packaging: Plastic: LDPE Type of packaging: Drum Size of packaging: 200 L Material of packaging: Plastic: HDPE

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

Function	Description: Car wash

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name	Tammermatic Oy
Postal address	Tesoman Valtatie 28
Postcode	33300
City	TAMPERE
Telephone number	401993550
Email	jukka.tervakoski@tammermatic.fi
Website	www.tammermatic.com

1.4. Emergency telephone number

Emergency telephone	Telephone number: Phone: 09-4711 , 09-471977 (direct) Description: Kuvaus: Myrkytystietokeskus, Tukholmankatu 17, PL 790, 00029 HUS (Helsinki), (24 h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Skin Irrit. 2; H315 Eye Dam. 1; H318

2.2. Label elements

Hazard pictograms (CLP)

Signal word	Warning
Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage.
Precautionary statements	P280 Wear protective gloves / protective clothing / eye protection / face protection. P303+P361+P353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P337+P313 If eye irritation persists: Get medical advice / attention.

2.3. Other hazards

Other hazards	Not known.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Composition type	Mixture

Substance	Identification	Classification	Contents	Notes
Isotridekanolietoksylaatti		Acute Tox. 4; H302 Eye Dam. 1; H318	5 – 13 %	
Naphtha (petroleum) , hydrodesulfurized heavy	CAS No.: 64742-82-1 EC No.: 265-185-4 Index No.: 649-330-00-2	Carc. 1B; H350 Muta. 1B; H340 STOT RE 1; H372 Asp. Tox. 1; H304 CLP classification, notes: P	4 – 9 %	
C-9-11 Alkoholethoxylat	CAS No.: 68439-46-3 REACH Reg. No.: 01-2119980051-45	Eye Irrit. 2; H319	1 – 4 %	
Diethylene glycol monobutyl ether	CAS No.: 112-34-5 EC No.: 203-961-6 Index No.: 603-096-00-8	Eye Irrit. 2; H319	1 – 4 %	

	REACH Reg. No.: 01-2119475104-44		
Sodium hydroxide	CAS No.: 1310-73-2 EC No.: 215-185-5 Index No.: 011-002-00-6 REACH Reg. No.: 01-2119457892-27	Skin Corr. 1A; H314	0,1 – 1 %
Kvaternäärinen kookosrasvaalkyyliamiinietoksylaatti	CAS No.: 863679-20-3	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400	1 – 5 %

SECTION 4: First aid measures

4.1. Description of first aid measures

General	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical advice/ attention.

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

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Fight fire with normal precautions from a reasonable distance.
Improper extinguishing media	Not known

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Not known
Hazardous combustion products	The product may decompose on fire producing toxic nitrogen compounds

5.3. Advice for firefighters

Personal protective equipment	In case of inadequate ventilation wear respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Collect spillage. Absorb spillage to prevent material damage.
Personal protection measures	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
For emergency responders	In case of inadequate ventilation wear respiratory protection.

6.2. Environmental precautions

Environmental precautionary measures	Collect spillage. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Containment	Collect spillage. Absorb spillage to prevent material damage.
Clean up	Collect spillage.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Store in the original package

7.2. Conditions for safe storage, including any incompatibilities

Storage	Keep container tightly closed. Keep container tightly closed.

7.3. Specific end use(s)

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Isotridekanolietoksylaatti			
Naphtha (petroleum) , hydrodesulfurized heavy	CAS No.: 64742-82-1		
C-9-11 Alkoholethoxylat	CAS No.: 68439-46-3		
Diethylene glycol monobutyl ether	CAS No.: 112-34-5	Limit value (8 h) : 10 ppm Limit value (8 h) : 67,5 mg/m³ **Limit value (short term)** Value: 15 ppm **Limit value (short term)** Value: 101,2 mg/m³	
Sodium hydroxide	CAS No.: 1310-73-2	**Limit value (short term)** Value: 2 mg/m³ **Peak limitation value** Peak limitation value: 2 mg/m³	
Kvaternäärinen	CAS No.: 863679-20-3		

kookosrasvaalkyyliamiinietoksylaatti

8.2. Exposure controls

Safety signs

Respiratory protection

Respiratory protection necessary at	In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Yellowish.
Odour	Odorless
pH	Value: 12,5 -13,5
Melting point / melting range	Reason for waiving data: No data.
Freezing point	Reason for waiving data: No data.
Boiling point / boiling range	Reason for waiving data: No data.
Flash point	Reason for waiving data: No data.
Evaporation rate	Reason for waiving data: No data.
Lower explosion limit with unit of measurement	Reason for waiving data: No data.
Upper explosion limit with units of measurement	Reason for waiving data: No data.
Explosion limit	Reason for waiving data: No data.
Vapour pressure	Reason for waiving data: No data.
Vapour density	Reason for waiving data: No data.
Relative density	Value: 1,1
Density	Reason for waiving data: No data.
Bulk density	Reason for waiving data: No data.
Solubility	Medium: Water
Partition coefficient: n-octanol/ water	Reason for waiving data: No data.
Auto-ignition temperature	Reason for waiving data: No data.
Decomposition temperature	Reason for waiving data: No data.
Viscosity	Reason for waiving data: No data.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

10.5. Incompatible materials

Materials to avoid	Take any precaution to avoid mixing with combustibles / strong acids

10.6. Hazardous decomposition products

Hazardous decomposition products	Nitrous gases (NOx). Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Effect tested: LD50 Route of exposure: Oral Value: 6560 mg/kg Species: Rat Comments: 2-(2-Butoksietoksi)etanoli Effect tested: LD50 Route of exposure: Dermal Value: 4120 mg/kg Species: Rabbit Comments: 2-(2-Butoksietoksi)etanoli Effect tested: LDlo Route of exposure: Oral Value: 500 mg/kg Species: Rabbit Comments: Natriumhydroksidi

11.2 Other information

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity, fish	Toxicity type: Unreported
Aquatic toxicity, algae	Toxicity type: Unreported

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Endocrine disrupting properties

12.7. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Dispose of contents/container to according to the instructions of the local authorities
Appropriate methods of disposal for the contaminated packaging	Dispose of contents/container to according to the instructions of the local authorities

SECTION 14: Transport information

Dangerous goods	No

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

15.2. Chemical safety assessment

Chemical safety assessment performed	No

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage.

	H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H340 May cause genetic defects H350 May cause cancer H372 Causes damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life.
Version	1
Prepared by	Jukka Tervakoski