

**Tammermatic MICRO**

Date 20.1.2017

Previous date: 27.4.2015

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**
**1.1 Product identifier**
**1.1.1 Commercial Product Name**

Tammermatic MICRO

**1.2 Relevant identified uses of the substance or mixture and uses advised against**
**1.2.1 Recommended use**

Washing agent for vehicle.

**1.3 Details of the supplier of the safety data sheet**
**1.3.1 Supplier**

Tammermatic Oy

**Street address**

Tesomanvaltatie 28

**Postcode and post office**

33300 Tampere

**P.O.Box**

PB 206

**Postcode and post office**

33101 Tampere

**Telephone**

+358-20 1373 403

**Telefax**

+358-20 1373 409

**Business ID**

1043549-7

**Email**

service@tammermatic.com

**1.4 Emergency telephone number**
**1.4.1 Telephone number, name and address**

Poison centrum in Finland +358-9-4711

Local emergency phone (in Finland 112)

**2. HAZARDS IDENTIFICATION**
**2.1 Classification of the substance or mixture**

Risk of serious damage to eyes, irritating to skin.

**1272/2008 (CLP)**

Skin Irrit. 2, H315

Eye Dam. 1, H318

**2.2 Label elements**
**1272/2008 (CLP)**

GHS05

Signal word

**Danger**
**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/shower.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313

If eye irritation persists: Get medical advice/attention.

**2.3 Other hazards**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**
**Hazardous components**

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<b>CAS/EC and Reg. number</b>	<b>Chemical name of the substance</b>	<b>Concentration</b>	<b>Classification</b>
	Isotridecanol ethoxylate	5-13 %	Acute Tox. 4, Eye Dam. 1; H302 H318
64742-82-1 01-2119490979-12	Kerosine	4-9 %	Flam. Liq. 3, Asp. Tox. 1, STOT SE 3, Aquatic Chronic 2; H226 H304 H336 H411
863679-20-3	Quaternary cocosfat alkylamine ethoxylate	1-5 %	Acute Tox. 4, Skin Irrit.2, Eye Dam. 1, Aquatic Acute 1; H302 H315 H318 H400
68439-46-3 01-2119980051-45	Alcohol(C9-11) ethoxylate	1-4 %	Acute Tox. 4, Eye Dam. 1; H302 H318
112-34-5 01-2119475104-44	2-(2-Butoxyethoxy)ethanol	1-4 %	Eye Irrit. 2; H319
1310-73-2 01-2119457892-27	Sodium hydroxide	0,1-1 %	Skin Corr. 1A; H314

**3.3 Other information**  
does not exist

**4. FIRST AID MEASURES****4.1 Description of first aid measures****4.1.2 Inhalation**

Fresh air, rest.

**4.1.3 Skin contact**

Remove contaminated clothing and rinse the skin with plenty of water.

**4.1.4 Eye contact**

Rinse under running water 10-15 min. Seek medical help immediately and keep rinsing.

**4.1.5 Ingestion**

Wash out mouth thoroughly with water and give plenty of water or milk to drink. Seek medical help.

**4.2 Most important symptoms and effects, both acute and delayed****4.3 Indication of immediate medical attention and special treatment needed**

nursing according to symptoms

**5. FIREFIGHTING MEASURES****5.1 Extinguishing media****5.1.1 Suitable extinguishing media**

Product does not ignite. Extinguishing means according to the environment.

**5.1.2 Extinguishing media which must not be used for safety reasons**

not known

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

Product can degrade in the fire and may involve toxic nitrogen compounds.

**5.3 Advice for firefighters**

In the case of large fire use full protective clothing and self-contained breathing apparatus with over pressure.

**5.4 Specific methods**

does not exist

**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Use safety goggles and safety gloves (e.g. neoprene, nitrile or laminated PE/EVOH). Wear appropriate protective clothing if necessary .

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**6.2 Environmental precautions**

Do not allow to enter drinking water supplies, waste water or soil without diluting with plenty of water.

**6.3 Methods and materials for containment and cleaning up**

Absorb on an inert absorbent and transfer carefully to sealed container. Arrange for removal by disposal company. Rinse residues with plenty of water. Use protective equipment mentioned in item 6.1.

**6.4 Reference to other sections**

does not exist

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Usual hygienic measures are necessary allowing for the risk of serious damage to eyes and irritating to skin.

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

Storing tight sealed in original packages in a warm, dry place. Protect from frosting.

**7.3 Specific end use(s)****8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****8.1.1 Threshold limits**

Sodium hydroxide	2 mg/m <sup>3</sup> (8 h, max value)	
2-(2-Butoxyethoxy)ethanol	10 ppm (8 h)	68 mg/m <sup>3</sup> (8 h)

**8.1.2 Other information on limit values**

not known

**8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Good general ventilation should be sufficient.

**8.2.2 Individual protection measures****8.2.2.1 Respiratory protection**

normally not needed

**8.2.2.2 Hand protection**

Use safety gloves mentioned in item 6.1. if necessary.

**8.2.2.3 Eye/face protection**

Use safety goggles.

**8.2.2.4 Skin protection**

use properly protecting clothes to avoid skin contact

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Important Health Safety and Environmental Information****9.1.1 Appearance**

Yellowish liquid.

**9.1.2 Odour**

Mild odour

**9.1.4 pH**

13,0 ± 0,5

**9.1.6 Initial boiling point and boiling range**

not measured

**9.1.7 Flash point**

does not exist

**9.1.9 Flammability (solid, gas)**

not measured

**9.1.10 Explosive properties****9.1.10.1 Lower explosion limit**

does not exist

**9.1.10.2 Upper explosion limit**

does not exist

**9.1.11 Vapour pressure**

not measured

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<b>9.1.13</b>	<b>Relative density</b>	1,1
<b>9.1.14</b>	<b>Solubility(ies)</b>	
<b>9.1.14.1</b>	<b>Water solubility</b>	miscible in all proportions
<b>9.1.14.2</b>	<b>Fat solubility (solvent - oil to be specified)</b>	not measured
<b>9.1.15</b>	<b>Partition coefficient: n-octanol/water</b>	not measured
<b>9.1.18</b>	<b>Viscosity</b>	not measured
<b>9.1.20</b>	<b>Oxidising properties</b>	does not exist
<b>9.2</b>	<b>Other information</b>	does not exist

**10. STABILITY AND REACTIVITY**

<b>10.1</b>	<b>Reactivity</b>	
<b>10.2</b>	<b>Chemical stability</b>	Product is stable at normal temperature
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	
<b>10.4</b>	<b>Conditions to avoid</b>	not known
<b>10.5</b>	<b>Incompatible materials</b>	Strong acids.
<b>10.6</b>	<b>Hazardous decomposition products</b>	Nitrogen and carbon oxides.

**11. TOXICOLOGICAL INFORMATION**

<b>11.1</b>	<b>Information on toxicological effects</b>	
<b>11.1.1</b>	<b>Acute toxicity</b>	2-(2-Butoxyethoxy)ethanol: LD50=6560 mg/kg (oral, rat), LD50=4120 mg/kg (skn, rabbit); Sodiumhydroxide: LDLo=500 mg/kg (oral, rabbit)
<b>11.1.2</b>	<b>Irritation and corrosion</b>	Product can cause serious damage to eyes and irritates the skin. Long termed and/or repeated skin contact can cause irritation dermatitis.
<b>11.1.3</b>	<b>Sensitisation</b>	not known
<b>11.1.4</b>	<b>Subacute, subchronic and prolonged toxicity</b>	not known
<b>11.1.5</b>	<b>STOT-single exposure</b>	Swallowing can irritate alimentary canal.
<b>11.1.8</b>	<b>Other information on acute toxicity</b>	not known

**12. ECOLOGICAL INFORMATION**

<b>12.1</b>	<b>Toxicity</b>	
<b>12.1.1</b>	<b>Aquatic toxicity</b>	Product is locally toxic for the aquatic organisms due its alkalinity.
<b>12.1.2</b>	<b>Toxicity to other organisms</b>	not known
<b>12.2</b>	<b>Persistence and degradability</b>	
<b>12.2.1</b>	<b>Biodegradation</b>	Product is biologically degradable.

