SAFETY DATA SHEET

RAINLUX

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	08.06.2021

1.1. Product identifier

Product name	RAINLUX
Article no.	2011021
Product definition	Drying aid
Information on the packaging	Type of packaging: Jug Size of packaging: 20 L Material of packaging: Plastic: HDPE Type of packaging: IBC (intermediate bulk container) Size of packaging: 1000 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 Irrit. 2; H319

2.2. Label elements

Hazard pictograms (CLP)

Signal word	Warning
Hazard statements	H315 Causes skin irritation. H319 Causes serious eye irritation.
Precautionary statements	P280 Wear 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]. 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

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Composition type	Mixture

Substance	Identification	Classification	Contents	Notes
Propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	< 5 %	
2-Butoxyethanol	CAS No.: 111-76-2 EC No.: 203-905-0 Index No.: 603-014-00-0	Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315	< 5 %	
(Z) -Octadec-9-enylamine	CAS No.: 112-90-3 EC No.: 204-015-5 Index No.: 612-283-00-3	Acute Tox. 4; H302 Asp. Tox. 1; H304 STOT SE 3; H335 STOT RE 2; H373	< 5 %	

		Skin Corr. 1B; H314 Aquatic Acute 1; H400; M-factor 10 Aquatic Chronic 1; H410; M-factor 10	
	REACH Reg. No.: 01-2119457558-25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 Skin Irrit. 2; H315	< 5 %
Acetic acid ...%	CAS No.: 64-19-7 EC No.: 200-580-7 Index No.: 607-002-00-6	Flam. Liq. 3; H226 Skin Corr. 1A; H314 CLP classification, notes: B	< 5 %

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.
Eye contact	Rinse cautiously with water for several minutes.
Ingestion	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

Medical treatment	IF exposed or concerned: Get medical advice/attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	In case of fire: Use vaahto, jauhe, CO2, vesisumu for extinction.
Improper extinguishing media	Not known.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Not known.

5.3. Advice for firefighters

Personal protective equipment	In case of inadequate ventilation wear respiratory protection.
Fire fighting procedures	In case of fire: Stop leak if safe to do so.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Evacuate area.

Personal protection measures	Do not breathe dust / fume / gas / mist / vapours / spray.
Emergency procedures	Evacuate area.
For emergency responders	In case of inadequate ventilation wear respiratory protection.

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

Containment	Collect spillage. Avoid release to the environment.
Clean up	Absorb spillage to prevent material damage. 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 only in original container.

7.3. Specific end use(s)

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Propan-2-ol	CAS No.: 67-63-0	Limit value (8 h) : 400 ppm Limit value (8 h) : 999 mg/m³ **Limit value (short term)** Value: 500 ppm **Limit value (short term)** Value: 1250 mg/m³	
2-Butoxyethanol	CAS No.: 111-76-2	Limit value (8 h) : 25 ppm Limit value (8 h) : 123 mg/m³ **Limit value (short term)** Value: 50 ppm **Limit value (short term)** Value: 246 mg/m³ **Exposure limit letter** Letter code: Sk; BEI	
(Z) -Octadec-9-enylamine	CAS No.: 112-90-3		
Acetic acid ...%	CAS No.: 64-19-7	Limit value (8 h) : 20 ppm Limit value (8 h) : 25 mg/m³ **Limit value (short term)** Value: 20 ppm **Limit value (short term)**	

	Value: 50 mg/m³

8.2. Exposure controls

Safety signs

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Yellow.
Odour	Mild.
pH	Status: In delivery state Value: 3,5 – 5,0
Boiling point / boiling range	Value: 80 °C
Flash point	Value: > 65 °C
Relative density	Value: < 1

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

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Effect tested: LC50 Route of exposure: Oral Value: 5045 mg/kg Species: Rat Comments: 2-Propanoli Effect tested: LDlo Route of exposure: Oral

	Value: 2770 ml/kg Species: People Comments: 2-Propanoli Effect tested: LDlo Route of exposure: Inhalation. Duration: 3 hour(s) Value: 1200 ppm Species: Mouse Effect tested: LD50 Value: 12,8 g/kg Species: Rabbit Comments: 2-Propanoli Effect tested: LD50 Route of exposure: Oral Value: 1480 mg/kg Species: Rat Comments: 2-Butoksietanoli Effect tested: LC50 Route of exposure: Inhalation. Duration: 4 hour(s) Value: 500 ppm Species: Rat Comments: 2-Butoksietanoli Effect tested: LC50 Route of exposure: Oral Value: 3310 mg/kg Species: Rat Comments: Acetic acid

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

Results of PBT and vPvB assessment	Not known.

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)	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled.

	H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
Version	1
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