

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
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1.3. Details of the supplier of the safety data sheet**Manufacturer**

Company name	Tammermatic Oy
Postal address	Vaaksakuja 1
Postcode	33960
City	Pirkkala
Country	Suomi
Telephone number	020 1373 400

Email	service@tammermatic.com
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)
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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
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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

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	< 5 %	

		STOT RE 2; H373 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.
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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.
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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
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7.2. Conditions for safe storage, including any incompatibilities

Storage	Keep only in original container.
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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/m ³ Limit value (short term) Value: 500 ppm Limit value (short term) Value: 1250 mg/m ³	
2-Butoxyethanol	CAS No.: 111-76-2	Limit value (8 h) : 25 ppm Limit value (8 h) : 123 mg/m ³ Limit value (short term) Value: 50 ppm Limit value (short term) Value: 246 mg/m ³ 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/m ³ 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: LD ₅₀

Route of exposure: Oral
 Value: 2770 ml/kg
 Species: People
 Comments: 2-Propanoli

Effect tested: LD₁₀
 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
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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
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SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	<p>H225 Highly flammable liquid and vapour.</p> <p>H226 Flammable liquid and vapour.</p> <p>H302 Harmful if swallowed.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H312 Harmful in contact with skin.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p>
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	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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