

Label-Remover pen

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

1.1 - Product identifier

Trade name/designation Label-Remover pen

Chemical name

Product-type Mixture

Product code 213.015

UFI: GMG3-E0WB-R00Q-M4GG

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

Relevant identified uses

- PC35: Washing and cleaning products (including solvent based products).
- For professional use only

1.3 - Details of the supplier of the safety data sheet

HERMA GmbH
Heinrich-Hermann-Straße 14
70794 Filderstadt
GERMANY
Tel: +49(0)711 / 77020

1.4 - Emergency telephone number

Germany: Intoxications Information Center; +49 761 19240 Switzerland:
Swiss Toxicological Information Centre; +41 44 251 51 51 Tox Info
Suisse Emergency Number: 145 (24hr)
Austria: Intoxication information center; +43 1 406 43 43

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

| | |
|-------------------|--|
| Flam. Liq. 3 | Flammable liquid and vapour. - Category 3 |
| Skin Irrit. 2 | Irritation, Category 2 |
| Skin Sens. 1 | Skin sensitization - Category 1 |
| Asp. Tox. 1 | Aspiration hazard - Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment - Aquatic Chronic 1 |

2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains: linalool; 3,7-dimethyl- 1,6-octadien-3-ol; dl-linalool (CAS No.: 78-70-6) | (R)-p-mentha-1,8-diene, d-limonene (CAS No.: 5989-27-5)

Signal word : Danger

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Hazard pictograms



Hazard statements

| | |
|------|--|
| H226 | Flammable liquid and vapour |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H410 | Very toxic to aquatic life with long lasting effects |

Precautionary statements

| | |
|-------------|--|
| P102 | Keep out of reach of children. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P280 | Wear protective gloves. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/a doctor. |
| EUH-phrases | : None |

Regulation (EC) No. 648/2004 (Detergents regulation)

Contains:
- LINALOOL
- D-LIMONENE

2.3 - Other hazards

| | |
|--|---|
| <u>PBT-substance.</u> | - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
| <u>vPvB-substance.</u> | - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
| <u>Other hazards which do not result in classification</u> | - Additional information - Do NOT induce vomiting. - Do not get in eyes, on skin, or on clothing. |

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

| Chemical name | No | % | Class(es) | Specific concentration limit |
|---|---|-----|---|------------------------------|
| (R)-p-mentha-1,8-diene, d-limonene INCI: D-LIMONENE | CAS No. : 5989-27-5 Index No. : 601-096-00-2 EC No. : 227-813-5 | < 1 | Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412 Asp. Tox. 1 - H304 Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1B - H317 | M-factor: / 1 |

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| Chemical name | No | % | Class(es) | Specific concentration limit |
|---|---|------|----------------------|------------------------------|
| linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool INCI: LINALOOL | CAS No. : 78-70-6 Index No. : 603-235-00-2 EC No. : 201-134-4 | > 99 | Skin Sens. 1B - H317 | Not applicable |

SECTION 4: First aid measures

4.1 - Description of first aid measures

| | |
|-------------------------------|---|
| <u>Following inhalation</u> | - No special measures are necessary. - Provide fresh air. |
| <u>Following skin contact</u> | - After contact with skin, wash immediately with plenty of water and soap. - In case of skin irritation, consult a physician. - In case of skin reactions, consult a physician. |
| <u>After eye contact</u> | - Rinse immediately carefully and thoroughly with eye-bath or water. - In case of eye irritation consult an ophthalmologist. |
| <u>After ingestion</u> | - Rinse mouth thoroughly with water. - Do NOT induce vomiting. |

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

| | |
|--|-----------------------------|
| <u>Symptoms and effects - Following inhalation</u> | - No information available. |
| <u>Symptoms and effects - Following skin contact</u> | - Causes skin irritation. |
| <u>Symptoms and effects - After eye contact</u> | - No information available. |
| <u>Symptoms and effects - After ingestion</u> | - No information available. |

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

- Treat symptomatically.
- In case an intoxication is suspected, National Poisons Information Centre should be addressed immediately, number of Emergency telephone see in section 1.4.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

| | |
|---------------------------------------|--|
| <u>Suitable extinguishing media</u> | - ABC-powder - Carbon dioxide (CO2) - Foam - Extinguishing powder |
| <u>Unsuitable extinguishing media</u> | - Full water jet |

5.2 - Special hazards arising from the substance or mixture

| | |
|--|--------------------------------|
| <u>Special hazards arising from the substance or mixture</u> | - Flammable liquid and vapour. |
|--|--------------------------------|

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- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hazardous decomposition products

- Carbon dioxide (CO₂)
- Carbon monoxide

5.3 - Advice for firefighters

- Wear a self-contained breathing apparatus and chemical protective clothing.
- Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- Use personal protection equipment.
- Provide adequate ventilation.
- Remove all sources of ignition.

For emergency responders

- No information available.

6.2 - Environmental precautions

- Do not allow to enter into surface water or drains.
- Do not allow uncontrolled discharge of product into the environment.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment

- No information available.

Methods and material for cleaning up

- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
- Wash with plenty of water.

Inappropriate techniques

- No information available.

6.4 - Reference to other sections

- Disposal: see section 13
- Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation

- Avoid: Skin contact
- It is recommended to design all work processes always so that the following is excluded: Skin contact
- It is recommended to design all work processes always so that the following is excluded: Generation/formation of dust
- It is recommended to design all work processes always so that the following is excluded: generation/formation of aerosols
- Vapours can form explosive mixtures with air.
- When using do not smoke.
- Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

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- Use only in well-ventilated areas.

Advices on general occupational hygiene

- No information available.

7.2 - Conditions for safe storage, including any incompatibilities

- Storage class Flammable liquids
- Keep container tightly closed and in a well-ventilated place.
- Do not store together with: Combustible substance
- Protect against: Heat

7.3 - Specific end use(s)

- Washing and cleaning products

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

DNEL / PNEC

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|--|-------------------------|-----------|----------|
| Type | Value | User | Effect |
| DNEL long-term oral (repeated) | 4.44 mg/kg bw/day | Consumers | Systemic |
| DNEL long-term inhalative | 7.78 mg/m ³ | Consumers | Systemic |
| DNEL long-term inhalative | 31.1 mg/m ³ | Workers | Systemic |
| DNEL acute dermal, short-term | 0.0929 mg/kg | Consumers | Local |
| DNEL acute dermal, short-term | 0.1858 mg/kg | Workers | Local |
| DNEL long-term dermal | 8.89 mg/kg bw/day | Workers | Systemic |
| DNEL long-term dermal | 4.44 mg/kg bw/day | Consumers | Systemic |
| linalool; 3,7-dimethyl- 1,6-octadien-3-ol; dl-linalool (78-70-6) | | | |
| Type | Value | User | Effect |
| DNEL long-term oral (repeated) | 2.49 mg/kg bw/day | Consumers | Systemic |
| DNEL long-term inhalative | 24.58 mg/m ³ | Workers | Systemic |
| DNEL long-term inhalative | 4.33 mg/m ³ | Consumers | Systemic |
| DNEL acute dermal, short-term | 3 mg/cm ² | Workers | Local |
| DNEL acute dermal, short-term | 1.5 mg/cm ² | Consumers | Local |
| DNEL long-term dermal | 1.25 mg/kg bw/day | Consumers | Systemic |
| DNEL long-term dermal | 1.5 mg/cm ² | Consumers | Local |
| DNEL long-term dermal | 3.5 mg/kg bw/day | Workers | Systemic |
| DNEL long-term dermal | 3 mg/cm ² | Workers | Local |
| PNEC aquatic, freshwater | 0.2 mg/l | | |
| PNEC aquatic, marine water | 0.02 mg/l | | |
| PNEC sediment, freshwater | 2.22 mg/kg | | |
| PNEC sediment, marine water | 0.222 mg/kg | | |
| PNEC soil | 0.327 mg/kg | | |
| PNEC Secondary Poisoning | 7.8 mg/kg | | |
| PNEC sewage treatment plant (STP) | 10 mg/l | | |
| (R)-p-mentha-1,8-diene, d-limonene (5989-27-5) | | | |
| Type | Value | User | Effect |
| DNEL long-term oral (repeated) | 4.8 mg/kg bw/day | Consumers | Systemic |
| DNEL long-term inhalative | 66.7 mg/m ³ | Workers | Systemic |
| DNEL long-term inhalative | 16.6 mg/m ³ | Consumers | Systemic |
| DNEL long-term dermal | 4.8 mg/kg bw/day | Consumers | Systemic |

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| | | | |
|-----------------------------------|------------------|---------|----------|
| DNEL long-term dermal | 9.5 mg/kg bw/day | Workers | Systemic |
| PNEC aquatic, freshwater | 0.014 mg/l | | |
| PNEC aquatic, marine water | 0.0014 mg/l | | |
| PNEC sediment, freshwater | 3.85 mg/kg | | |
| PNEC sediment, marine water | 0.385 mg/kg | | |
| PNEC soil | 0.763 mg/kg | | |
| PNEC Secondary Poisoning | 133 mg/kg | | |
| PNEC sewage treatment plant (STP) | 1.8 mg/l | | |

8.2 - Exposure controls

Appropriate engineering controls

- No information available.

Individual protection measures, such as personal protective equipment

- Tested protective gloves must be worn

- Protective gloves according to EN374
- Glove material: Nitrile rubber (0.11 mm).
- Breakthrough time: > 480 min.
- This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.
- Suitable eye protection: goggles



- DIN EN 166

Environmental exposure controls

- No information available.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

| <u>Physical state</u> | <u>Liquid</u> | <u>Appearance</u> | <u>Liquid</u> |
|-----------------------|---------------|-------------------|----------------|
| <u>Colour</u> | light yellow | <u>Odour</u> | characteristic |
| Odour threshold | | No data available | |
| pH | | No data available | |
| Melting point | | No data available | |
| Freezing point | | No data available | |
| Boiling point | | 177 °C | |
| Flash point | | 53.4 °C | |
| Evaporation rate | | No data available | |
| flammability | | No data available | |
| Lower explosion limit | | 0.7 % Vol. | |
| Upper explosion limit | | 6.1 % Vol. | |
| Vapour pressure | | 1.865 hPa | |
| Vapour density | | No data available | |

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| | |
|-------------------------------|-------------------------------|
| Relative density | No data available |
| Density | 0.847 g/cm ³ |
| Solubility (Water) | 3.4834 mg/l < V < 1767.3 mg/l |
| Solubility (Ethanol) | No data available |
| Solubility (Acetone) | No data available |
| Solubility (Organic solvents) | No data available |
| Log KOC | > 4 |
| Auto-ignition temperature | 235 °C |
| Decomposition temperature | No data available |
| Kinematic viscosity | 1.17 mm ² /s |
| Dynamic viscosity | 0.99 mPa.s |

Particle characteristics

| | |
|-----------------------|-------------------|
| Particle size | No data available |
| Dustiness | No data available |
| Specific surface area | No data available |
| Shape | No data available |

9.2 - Other information

| | |
|-------------------------|-------------------|
| VOC content | 840 g/l |
| Minimum ignition energy | No data available |
| Conductivity | No data available |

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- In case of warming: Ignition hazard
- Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
- Keep cool. Protect from sunlight.

10.5 - Incompatible materials

- No information available.

10.6 - Hazardous decomposition products

- No information available.

SECTION 11: Toxicological information

11.1 - Information on hazard classes as defined in Regulation (EC) No 1272/2008

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Acute toxicity - Not classified

Toxicity : Mixture

| | |
|---------------------------------------|-------------------|
| LD50 oral (rat) | No data available |
| LD50 dermal (rat) | No data available |
| LD50 dermal (rabbit) | No data available |
| LC50 inhalation (rat) | No data available |
| LC50 inhalation dusts and mists (rat) | No data available |
| LC50 inhalation vapours (rat) | No data available |

- Based on available data, the classification criteria are not met.

Toxicity : Substances

| | |
|--|--------------|
| linalool; 3,7-dimethyl- 1,6-octadien-3-ol; dl-linalool (78-70-6) | |
| LD50 oral (rat) | 2790 mg/kg |
| LD50 dermal (rat) | 5610 mg/kg |
| LC50 inhalation vapours (rat) | > 3.2 mg/l |
| (R)-p-mentha-1,8-diene, d-limonene (5989-27-5) | |
| LD50 oral (rat) | > 2000 mg/kg |
| LD50 dermal (rat) | > 5000 mg/kg |

Skin corrosion/irritation - Irritation, Category 2 - Causes skin irritation

- Irritating to skin.

Serious eye damage/eye irritation - Not classified

Respiratory or skin sensitisation - Skin sensitization - Category 1 - May cause an allergic skin reaction

- May cause sensitization by skin contact.
- May cause an allergic skin reaction.

Germ cell mutagenicity - Not classified

Carcinogenicity - Not classified

Reproductive toxicity - Not classified

STOT-single exposure - Not classified

STOT-repeated exposure - Not classified

Aspiration hazard - Aspiration hazard - Category 1 - May be fatal if swallowed and enters airways

11.2 - Information on other hazards

- This substance does not have endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

| | |
|----------------------|-------------------|
| EC50 48 hr crustacea | No data available |
|----------------------|-------------------|

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| | |
|-----------------------------------|-------------------|
| LC50 96 hr fish | No data available |
| ErC50 algae | 150 mg/l |
| ErC50 other aquatic plants | No data available |
| NOEC chronic fish | No data available |
| NOEC chronic crustacea | No data available |
| NOEC chronic algae | No data available |
| NOEC chronic other aquatic plants | No data available |

Toxicity : Substances

| | |
|---|------------|
| linalool; 3,7-dimethyl- 1,6-octadien-3-ol; dl-linalool (78-70-6) | |
| EC50 48 hr crustacea | 59 mg/l |
| LC50 96 hr fish | 27.8 mg/l |
| ErC50 algae | 156.7 mg/l |
| NOEC chronic algae | 54.3 mg/l |
| (R)-p-mentha-1,8-diene, d-limonene (5989-27-5) | |
| EC50 48 hr crustacea | 0.307 mg/l |
| LC50 96 hr fish | 0.72 mg/l |
| ErC50 algae | 0.32 mg/l |
| NOEC chronic algae | 0.174 mg/l |

- Very toxic to aquatic life.
- Harmful to aquatic life with long lasting effects.

12.2 - Persistence and degradability

| | |
|---------------------------------|-------------------|
| Biochemical oxygen demand (BOD) | No data available |
| Chemical oxygen demand (COD) | No data available |
| % of biodegradation in 28 days | 72 % < V < 83.4 % |

- No information available.

12.3 - Bioaccumulative potential

| | |
|-------------------------------|-------------------|
| Bioconcentration factor (BCF) | 1.502 < V < 2.597 |
| Log KOC | > 4 |

- No indication of bioaccumulation potential.

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 - Endocrine disrupting properties

- This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 - Other adverse effects

- No information available.

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SECTION 13: Disposal considerations

13.1 - Waste treatment methods

| | |
|--|--|
| <u>Waste treatment methods</u> | <ul style="list-style-type: none">- Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.- Dispose of waste according to applicable legislation.- Handle contaminated packages in the same way as the substance itself.- 14 06 03:- other solvents and solvent mixtures- Evidence for disposal must be provided.- This material and its container must be disposed of as hazardous waste.- Dispose of empty or partially emptied packaging/container/can after appropriate use of the product to municipal waste. |
| <u>Sewage disposal</u> | - No information available. |
| <u>Special precautions for waste treatment</u> | - Do not allow to enter into surface water or drains. |

SECTION 14: Transport information

14.1 - UN number or ID number

| | | |
|-------------------------|---|--------|
| <u>UN number (ADR)</u> | : | UN2319 |
| <u>UN number (RID)</u> | : | UN2319 |
| <u>UN number (IMDG)</u> | : | UN2319 |
| <u>UN number (IATA)</u> | : | UN2319 |

14.2 - UN proper shipping name

| | | |
|---------------------------------------|---|------------------------------|
| <u>UN proper shipping name (ADR)</u> | : | TERPENE HYDROCARBONS, N.O.S. |
| <u>UN proper shipping name (RID)</u> | : | TERPENE HYDROCARBONS, N.O.S. |
| <u>UN proper shipping name (IMDG)</u> | : | TERPENE HYDROCARBONS, N.O.S. |
| <u>UN proper shipping name (IATA)</u> | : | TERPENE HYDROCARBONS, N.O.S. |

14.3 - Transport hazard class(es)

| | | |
|---------------------------------------|---|----|
| <u>ADR Transport hazard class(es)</u> | : | 3 |
| <u>ADR Classification code:</u> | : | F1 |
| <u>Pictograms</u> | | |



| | | |
|---|---|---|
| <u>Transport hazard class(es) (RID)</u> | : | 3 |
|---|---|---|

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Pictograms



Transport hazard class(es) (IMDG) : 3

Pictograms



Transport hazard class(es) (IATA) : 3

Pictograms



14.4 - Packing group

Packing group : III
Packing group (RID) : III
Packing group (IMDG) : III
Packing group (IATA) : III

14.5 - Environmental hazards

Environmental hazards : Yes.
Marine pollutant : Hazardous to the aquatic environment - Aquatic Chronic 1

14.6 - Special precautions for user

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ADR

| | | |
|--|---|----------------------|
| <u>ADR Classification code:</u> | : | F1 |
| <u>ADR Special provisions</u> | : | |
| <u>ADR Limited quantity (LQ)</u> | : | 5L |
| <u>ADR Excepted quantities</u> | : | E1 |
| <u>ADR Packing instructions</u> | : | P001 IBC03 LP01 R001 |
| <u>ADR Special packing provisions</u> | : | |
| <u>ADR Mixed packing provisions</u> | : | MP19 |
| <u>Instructions for portable tanks and bulk containers</u> | : | T4 |
| <u>Special provisions for portable tanks and bulk containers</u> | : | TP1 TP29 |
| <u>ADR tank code</u> | : | LGBF |
| <u>ADR tanks special provisions</u> | : | |
| <u>Vehicle for tank carriage</u> | : | |
| <u>ADR Transport category</u> | : | 3 |
| <u>ADR Tunnel restriction code</u> | : | D/E |
| <u>ADR Special provisions loading, unloading and handling</u> | : | |
| <u>Special provisions - Packages</u> | : | V12 |
| <u>Special provisions - Bulk</u> | : | |
| <u>Special provisions - Operation</u> | : | S2 |
| <u>ADR Hazard identification number (Kemler No.)</u> | : | 30 |

RID

| | | |
|------------------------------|---|-----|
| <u>Special provisions</u> | : | |
| <u>Limited quantity (LQ)</u> | : | 5 L |
| <u>Excepted quantities</u> | : | E1 |

IMDG

| | | |
|--|---|---|
| <u>Special provisions</u> | : | |
| <u>Limited quantity (LQ)</u> | : | 5 L |
| <u>Excepted quantities</u> | : | E1 |
| <u>Packing instructions</u> | : | P001 LP01 |
| <u>Special packing provisions</u> | : | |
| <u>IBC instruction(s)</u> | : | IBC03 |
| <u>IBC provisions</u> | : | |
| <u>Instructions for portable tanks and bulk containers</u> | : | T4 |
| <u>Special provisions for portable tanks and bulk containers</u> | : | TP1 TP29 |
| <u>EmS codes</u> | : | F-E, S-D |
| <u>Stowage and handling</u> | : | Category A |
| <u>Segregation</u> | : | none |
| <u>Properties and observations</u> | : | Colourless or yellowish liquids. Flashpoint: 32°C to 49°C c.c. Immiscible with water. |

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IATA

| | | |
|--|---|------|
| <u>PCA - Excepted quantities</u> | : | E1 |
| <u>PCA - Limited Quantity - Packing Instructions</u> | : | Y344 |
| <u>PCA - Limited Quantity - Maximum Net Quantity per Package</u> | : | 10L |
| <u>PCA - Packing Instructions</u> | : | 355 |
| <u>PCA - Maximum Net Quantity per Package</u> | : | 60L |
| <u>CAO - Packing Instructions</u> | : | 366 |
| <u>CAO - Maximum Net Quantity per Package</u> | : | 220L |
| <u>Special Provisions</u> | : | |
| <u>ERG Code</u> | : | 3L |

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

Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content 840 g/l

- – COMMISSION REGULATION (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII thereto. The Regulation has been published in the Official Journal of the European Union No. L 168/5 on 21 June, 2006;

- – COMMISSION REGULATION (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII thereto. The Regulation has been published in the Official Journal of the European Union No. L 168/5 on 21 June, 2006;

- – COMMISSION REGULATION (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures. The Regulation has been published in the Official Journal of the European Union No. L 156, on 14 June, 2016;

- – COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 203, 26.6.2020, p. 28–58);

- – On 16 December 2008 the Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of chemical substances and mixtures was undersigned. The said Regulation amended and repealed the directives 67/548/EEC and 1999/45/EC and Regulation (EC) No. 1907/2006 (the REACH Regulation). The Regulation has been published in the Official Journal of the European Union No. L 353, volume 51 on 31 December, 2008;

- – REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents (OJ L 104/1, 8.4.2004, p.001-0035);

- – Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No.793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union No. L 396, 30-12-2006, error correction – No. L 136/3, 2007-5-29);

- – The European Agreement concerning International Carriage of Dangerous Goods by Road (ADR).

- Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

- Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

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- Swiss Regulations: Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).
- For professional use only
- Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]
- P5c Flammable liquids
- E2 Hazardous to the aquatic environment in Category Chronic 2

Regulation (EC) No. 648/2004 (Detergents regulation)

Contains:

- LINALOOL
- D-LIMONENE

15.2 - Chemical Safety Assessment

SECTION 16: Other information

SDS versions

| Version | Issue date | Author | Description of the amendments |
|---------|------------|--------|--|
| 3 | 21/01/2024 | | Added information in section 1: 1.2 - Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses - PC35: Washing and cleaning products (including solvent based products). Added information in section 7: 7.3 - Specific end use(s) - Washing and cleaning products Added information in section 8: Exposure controls. Individual protection measures, such as personal protective equipment Suitable eye protection: goggles DIN EN 166 |

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| 2 | 22/05/2023 | | <p>Added information in section 1:</p> <p>1.1 - Product identifier Product code 213.015</p> <p>1.2 - Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses- For professional use only</p> <p>1.3 - Details of the supplier of the safety data sheet Distributor ECS AG Roosstrasse 53 CH-8832 Wollerau gunnar.kleinmann@ecsag.com +41 (0)44 / 787 53 56</p> <p>1.4 - Emergency telephone number Tox Info Suisse Emergency Number: 145 (24hr)</p> <p>Added information in section 2:</p> <p>2.2 - Label elements Precautionary statements P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Regulation (EC) No. 648/2004 (Detergents regulation) Contains: - LINALOOL - D-LIMONENE</p> <p>2.3 - Other hazards PBT-substance.- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. vPvB-substance.- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. Other hazards which do not result in classification - Additional information: - Do NOT induce vomiting. - Do not get in eyes, on skin, or on clothing.</p> <p>Added information in section 4:</p> <p>4.3 - Indication of any immediate medical attention and special treatment needed - In case an intoxication is suspected, National Poisons Information Centre should be addressed immediately, number of Emergency telephone see in section 1.4.</p> <p>Added information in section 5: Added information in section 5: 5.2 - Special hazards arising from the substance or mixture Special hazards arising from the substance or mixture - Flammable liquid and vapour. - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Hazardous decomposition products - Carbon dioxide (CO₂) - Carbon monoxide</p> <p>Added information in section 8: 8.2 - Exposure controls - Protective gloves according to EN374 - Glove material: Nitrile rubber (0.11 mm). - Breakthrough time: > 480 min. - This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas</p> |

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| 1 | 14/11/2022 | | <p>filter (i.e. type A1 according to standard EN 14387) is used.</p> <ul style="list-style-type: none"> - Suitable protective clothing: lab coat <p>For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.</p> <p>Barrier creams are not substitutes for body protection.</p> <p>Added information in section 10:</p> <p>10.4 - Conditions to avoid</p> <ul style="list-style-type: none"> - Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. - Keep cool. Protect from sunlight. <p>Added information in section 12:</p> <p>12.1 - Toxicity ErC50 algae 150 mg/l</p> <p>12.2 - Persistence and degradability % of biodegradation in 28 days 72 % < V < 83.4 %</p> <p>12.3 - Bioaccumulative potential Bioconcentration factor (BCF) 1.502 < V < 2.597 Log KOC > 4</p> <p>12.5 - Results of PBT and vPvB assessment</p> <ul style="list-style-type: none"> - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. <p>12.6 - Endocrine disrupting properties</p> <ul style="list-style-type: none"> - This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria. <p>Added information in section 13:</p> <p>Waste treatment methods</p> <ul style="list-style-type: none"> - Dispose of waste according to applicable legislation. - Handle contaminated packages in the same way as the substance itself. - 14 06 03: - other solvents and solvent mixtures - Evidence for disposal must be provided. - This material and its container must be disposed of as hazardous waste. - Dispose of empty or partially emptied packaging/container after appropriate use of the product to municipal waste. <p>Special precautions for waste treatment</p> <ul style="list-style-type: none"> - Do not allow to enter into surface water or drains. <p>Added information in section 15:</p> <p>Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work</p> <p>Swiss Regulations: Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).</p> <p>For professional use only.</p> <p>Regulation (EC) No. 648/2004 (Detergents regulation)</p> <p>Contains:</p> <ul style="list-style-type: none"> - LINALOOL - D-LIMONENE |

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Abbreviations and acronyms

- ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.
- CAS – Chemical Abstracts Service number.
- EC50 – Effective concentration to 50% of a test population (half maximal effective concentration).
- IC50 – Inhibitory concentration to 50% of a test population (half maximal inhibitory concentration).
- IMDG – International Maritime Dangerous Goods.
- IMO – International Maritime Organization.
- LC50 – Lethal Concentration to 50 % of a test population.
- LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose).
- MSDS – Material Safety Data Sheet.
- NIOSH – National Institute of Occupational Safety and Health.
- NOEC – No effect concentration.
- PBT – Persistent, Bioaccumulative and Toxic substance.
- PNEC(s) – Predicted No Effect Concentration(s).
- RID – Regulations concerning the International Carriage of Dangerous Goods by Rail.
- STOT – Specific Target Organ Toxicity.
- vPvB – Very Persistent and Very Bioaccumulative.

Data sources:

European Chemicals Agency (ECHA)
European Chemicals Bureau (ECB)
International Laboratories Organization (ILO)

Texts of the regulatory sentences

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|-------------------|--|
| Aquatic Acute 1 | Hazardous to the aquatic environment - Aquatic Acute 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment - Aquatic Chronic 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Aquatic Chronic 3 |
| Asp. Tox. 1 | Aspiration hazard - Category 1 |
| Flam. Liq. 3 | Flammable liquid and vapour. - Category 3 |
| H226 | Flammable liquid and vapour |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H410 | Very toxic to aquatic life with long lasting effects |
| Skin Irrit. 2 | Irritation, Category 2 |
| Skin Sens. 1 | Skin sensitization - Category 1 |
| Skin Sens. 1B | Skin sensitization - Category 1B |

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