



ALPHA AROMATICS

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

STR-LAUNDRYFRESH

Version number: GHS 1.0

Date of compilation: 2021-10-19

SECTION 1: Identification

1.1 Product identifier

Trade name **STR-LAUNDRYFRESH**
Alternative number(s) STR-LAUNDRYFRESH

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

Relevant identified uses general use

1.3 Details of the supplier of the safety data sheet

Alpha Aromatics
294 Alpha Dr
Pittsburgh PA 15238
United States

Telephone: 412-252-1012
Telefax: 412-252-1014
e-mail: info@alphaaromatics.com
Website: <http://www.alphaaromatics.com/>

e-mail (competent person) info@alphaaromatics.com

1.4 Emergency telephone number

Emergency information service (800) 535-5053
This number is only available during the following office hours: Mon-Fri 08:00 AM - 05:00 PM

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|--------------------|----------|---------------------------|------------------|
| 3.4S | skin sensitization | 1 | Skin Sens. 1 | H317 |

For full text of abbreviations: see SECTION 16.

2.2 Label elements

Labeling

- Signal word warning

- Pictograms

GHS07



- Hazard statements

H317 May cause an allergic skin reaction.



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- Precautionary statements

| | |
|-----------|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P321 | Specific treatment (see on this label). |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P501 | Dispose of contents/container to industrial combustion plant. |

- Hazardous ingredients for labelling

LIMONENE D, TRIPLAL, LINALOOL 925

2.3 Other hazards

of no significance

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms |
|---------------------|------------------------------------|---------|--|------------|
| LAURYL METHACRYLATE | CAS No 142-90-5 | 1 - < 5 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 | |
| LIMONENE D | CAS No 5989-27-5 | 1 - < 5 | Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 | |
| DIHYDRO MYRCENOL | CAS No 18479-58-8 | 1 - < 5 | Flam. Liq. 4 / H227 | |
| LINALOOL 925 | CAS No 78-70-6 | < 1 | Flam. Liq. 4 / H227 Skin Sens. 1B / H317 | |
| TRIPAL | CAS No 68039-49-6 68737-61-1 | < 1 | Skin Sens. 1A / H317 | |
| COUMARIN | CAS No 91-64-5 | < 1 | Acute Tox. 3 / H301 Acute Tox. 3 / H311 | |

For full text of abbreviations: see SECTION 16.



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SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | | | |
|--|---|----------|--------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|-----------------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
| CA | 2,6-di-tert-butyl-p-cresol | 128-37-0 | PEV/VEA | | 2 | | | | | iv | Regulation OHS |
| CA | 2,6-di-tert-butyl-p-cresol (butylated hydroxytoluene) (BHT) | 128-37-0 | OEL (AB) | | 10 | | | | | | OHS Code |
| CA | butylated hydroxytoluene (BHT) | 128-37-0 | OEL (ON-MoL) | | 2 | | | | | iv | MoL |
| CA | butylated hydroxytoluene (BHT) (2,6-di-tert-butyl-p-cresol) | 128-37-0 | OEL (BC) | | 2 | | | | | i, va | "BC Regulation" |
| CA | benzyl acetate | 140-11-4 | OEL (AB) | 10 | 61 | | | | | | OHS Code |
| CA | benzyl acetate | 140-11-4 | OEL (BC) | 10 | | | | | | | "BC Regulation" |
| CA | benzyl acetate | 140-11-4 | OEL (ON-MoL) | 10 | | | | | | | MoL |
| CA | benzyl acetate | 140-11-4 | PEV/VEA | 10 | | | | | | | Regulation OHS |

Notation

Ceiling-C

ceiling value is a limit value above which exposure should not occur

i

inhalable fraction

iv

inhalable fraction and vapor

STEL

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours

va

time-weighted average (unless otherwise specified)

va

as vapors and aerosols

Relevant DNELs of components of the mixture

| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|---------------------|-----------|----------|------------------------|------------------------------------|-------------------|----------------------------|
| LAURYL METHACRYLATE | 142-90-5 | DNEL | 41.66 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| LIMONENE D | 5989-27-5 | DNEL | 66.7 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| LIMONENE D | 5989-27-5 | DNEL | 9.5 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |



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| Relevant DNELs of components of the mixture | | | | | | |
|---|------------|----------|------------------------|------------------------------------|-------------------|----------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| DIHYDRO MYRCENOL | 18479-58-8 | DNEL | 73.5 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DIHYDRO MYRCENOL | 18479-58-8 | DNEL | 20.8 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| LINALOOL 925 | 78-70-6 | DNEL | 2.8 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| LINALOOL 925 | 78-70-6 | DNEL | 16.5 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| LINALOOL 925 | 78-70-6 | DNEL | 2.5 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| LINALOOL 925 | 78-70-6 | DNEL | 5 mg/kg bw/day | human, dermal | worker (industry) | acute - systemic effects |
| COUMARIN | 91-64-5 | DNEL | 6.78 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| COUMARIN | 91-64-5 | DNEL | 0.79 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

| Relevant PNECs of components of the mixture | | | | | | |
|---|------------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| LIMONENE D | 5989-27-5 | PNEC | 14 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| LIMONENE D | 5989-27-5 | PNEC | 1.4 µg/l | aquatic organisms | marine water | short-term (single instance) |
| LIMONENE D | 5989-27-5 | PNEC | 1.8 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| LIMONENE D | 5989-27-5 | PNEC | 3.85 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| LIMONENE D | 5989-27-5 | PNEC | 0.385 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| LIMONENE D | 5989-27-5 | PNEC | 0.763 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| DIHYDRO MYRCENOL | 18479-58-8 | PNEC | 27.8 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| DIHYDRO MYRCENOL | 18479-58-8 | PNEC | 2.78 µg/l | aquatic organisms | marine water | short-term (single instance) |
| DIHYDRO MYRCENOL | 18479-58-8 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| DIHYDRO MYRCENOL | 18479-58-8 | PNEC | 0.594 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| DIHYDRO MYRCENOL | 18479-58-8 | PNEC | 0.059 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |



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| Relevant PNECs of components of the mixture | | | | | | |
|---|------------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| DIHYDRO MYRCENOL | 18479-58-8 | PNEC | 0.103 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| LINALOOL 925 | 78-70-6 | PNEC | 0.2 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| LINALOOL 925 | 78-70-6 | PNEC | 0.02 mg/l | aquatic organisms | marine water | short-term (single instance) |
| LINALOOL 925 | 78-70-6 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| LINALOOL 925 | 78-70-6 | PNEC | 2.22 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| LINALOOL 925 | 78-70-6 | PNEC | 0.222 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| LINALOOL 925 | 78-70-6 | PNEC | 0.327 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| COUMARIN | 91-64-5 | PNEC | 19 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| COUMARIN | 91-64-5 | PNEC | 1.9 µg/l | aquatic organisms | marine water | short-term (single instance) |
| COUMARIN | 91-64-5 | PNEC | 6.4 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| COUMARIN | 91-64-5 | PNEC | 0.15 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| COUMARIN | 91-64-5 | PNEC | 0.015 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| COUMARIN | 91-64-5 | PNEC | 0.018 mg/kg | terrestrial organisms | soil | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.



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Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|----------------|------------------------|
| Physical state | liquid |
| Color | clear |
| Particle | not relevant (liquid) |
| Odor | Comparable to standard |

Other safety parameters

| | |
|---|-----------------------------------|
| pH (value) | not determined |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | 193 °C at 100.9 kPa |
| Flash point | 201 °F at 1 atm |
| Evaporation rate | not determined |
| Flammability (solid, gas) | not relevant, (fluid) |
| Vapor pressure | 0.25 kPa at 25 °C |
| Density | 0.9471 g/ml at 25 °C |
| Vapor density | this information is not available |
| Solubility(ies) | not determined |

Partition coefficient

| | |
|-----------------------------|---|
| - n-octanol/water (log KOW) | this information is not available |
| Auto-ignition temperature | 35 °C (auto-ignition temperature (liquids and gases)) |
| Viscosity | not determined |
| Explosive properties | not explosive (GHS of the United Nations, annex 4) |



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| | |
|----------------------|------|
| Oxidizing properties | none |
|----------------------|------|

9.2 Other information

| | |
|-----------------|---------|
| Solvent content | 97.13 % |
| Solid content | 2.873 % |

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity estimate (ATE) of components of the mixture | | | |
|--|---------|----------------|-----------|
| Name of substance | CAS No | Exposure route | ATE |
| COUMARIN | 91-64-5 | oral | 293 mg/kg |
| COUMARIN | 91-64-5 | dermal | 293 mg/kg |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.



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Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

| Aquatic toxicity (acute) of components of the mixture | | | | | |
|---|------------|----------|------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| LAURYL METHACRYLATE | 142-90-5 | EC50 | >10 µg/l | algae | 72 h |
| LIMONENE D | 5989-27-5 | LC50 | 720 µg/l | fish | 96 h |
| LIMONENE D | 5989-27-5 | EC50 | 688 µg/l | fish | 96 h |
| LIMONENE D | 5989-27-5 | ErC50 | 0.32 mg/l | algae | 72 h |
| DIHYDRO MYRCENOL | 18479-58-8 | LC50 | 27.8 mg/l | fish | 96 h |
| DIHYDRO MYRCENOL | 18479-58-8 | EC50 | 38 mg/l | aquatic invertebrates | 48 h |
| DIHYDRO MYRCENOL | 18479-58-8 | ErC50 | 80 mg/l | algae | 72 h |
| LINALOOL 925 | 78-70-6 | LC50 | 27.8 mg/l | fish | 96 h |
| LINALOOL 925 | 78-70-6 | EC50 | 59 mg/l | aquatic invertebrates | 48 h |
| LINALOOL 925 | 78-70-6 | ErC50 | 156.7 mg/l | algae | 96 h |
| COUMARIN | 91-64-5 | LC50 | 2.94 mg/l | fish | 96 h |
| COUMARIN | 91-64-5 | EC50 | 8.012 mg/l | aquatic invertebrates | 48 h |



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| Aquatic toxicity (chronic) of components of the mixture | | | | | |
|---|------------|----------|--------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| LAURYL METHACRYLATE | 142-90-5 | EC50 | >10,000 mg/l | microorganisms | 180 min |
| LIMONENE D | 5989-27-5 | EC50 | <0.67 mg/l | fish | 8 d |
| LIMONENE D | 5989-27-5 | LC50 | 0.41 mg/l | fish | 8 d |
| DIHYDRO MYRCENOL | 18479-58-8 | EC50 | 17 mg/l | aquatic invertebrates | 21 d |
| LINALOOL 925 | 78-70-6 | EC50 | >100 mg/l | microorganisms | 30 min |

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Information on this property is not available.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.



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SECTION 14: Transport information

14.1 UN number

| | |
|-----------|---------|
| UN RTDG | UN 3082 |
| IMDG-Code | UN 3082 |
| ICAO-TI | UN 3082 |

14.2 UN proper shipping name

| | |
|--|---|
| UN RTDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| IMDG-Code | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| ICAO-TI | Environmentally hazardous substance, liquid, n.o.s. |
| Technical name (hazardous ingredients) | DIOCTYL ADIPATE, ISO E SUPER |

14.3 Transport hazard class(es)

| | |
|-----------|---|
| UN RTDG | 9 |
| IMDG-Code | 9 |
| ICAO-TI | 9 |

14.4 Packing group

| | |
|-----------|-----|
| UN RTDG | III |
| IMDG-Code | III |
| ICAO-TI | III |

14.5 Environmental hazards

| | |
|---|--------------------------------------|
| | hazardous to the aquatic environment |
| Environmentally hazardous substance (aquatic environment) | DIOCTYL ADIPATE, ISO E SUPER |

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport information - National regulations - Additional information (UN RTDG)

| | |
|-----------------------|--|
| UN number | 3082 |
| Class | 9 |
| Environmental hazards | YES (hazardous to the aquatic environment) |
| Packing group | III |
| Danger label(s) | 9, fish and tree |





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Special provisions (SP) 274, 331, 335, 375 (UN RTDG)

Excepted quantities (EQ) E1 (UN RTDG)

Limited quantities (LQ) 5 L (UN RTDG)

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant YES (hazardous to the aquatic environment) (DIOCTYL ADIPATE)

Danger label(s) 9, fish and tree



Special provisions (SP) 274, 335, 969

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

EmS F-A, S-F

Stowage category A

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Environmental hazards YES (hazardous to the aquatic environment)

Danger label(s) 9, fish and tree



Special provisions (SP) A97, A158, A197, A215

Excepted quantities (EQ) E1

Limited quantities (LQ) 30 kg

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations specific for the product in question****National regulations (United States)****Clean Air Act**

none of the ingredients are listed

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

| Name of substance | CAS No | Functionality | Authoritative Lists |
|-------------------|-----------|---------------|------------------------|
| LIMONENE D | 5989-27-5 | | EU Fragrance Allergens |
| LINALOOL 925 | 78-70-6 | | EU Fragrance Allergens |
| COUMARIN | 91-64-5 | | EU Fragrance Allergens |



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- Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No | Remarks | Classifications |
|-------------------|----------|---------|-----------------|
| LIMONENE D | 138-86-3 | | F2 |

Legend

F2 Flammable - Second Degree

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category | Rating | Description |
|---------------------|--------|--|
| Chronic | / | none |
| Health | 2 | temporary or minor injury may occur |
| Flammability | 1 | material that must be preheated before ignition can occur |
| Physical hazard | 0 | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | - | |

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category | Degree of hazard | Description |
|----------------|------------------|--|
| Flammability | 1 | material that must be preheated before ignition can occur |
| Health | 2 | material that, under emergency conditions, can cause temporary incapacitation or residual injury |
| Instability | 0 | material that is normally stable, even under fire conditions |
| Special hazard | | |

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.



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SECTION 16: Other information

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|-----------------|--|
| "BC Regulation" | OHS Regulation: Section 5.48 (British Columbia) |
| Acute Tox. | Acute toxicity |
| ATE | Acute Toxicity Estimate |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| EmS | Emergency Schedule |
| ErC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| Flam. Liq. | Flammable liquid |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |
| MoL | Ministry of Labor: Current Occupational Exposure Limits for Ontario Workplaces Required under Regulation 833 |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition |
| OHS Code | Occupational Health and Safety Code: Occupational exposure limits for chemical substances (Alberta) |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |



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| Abbr. | Descriptions of used abbreviations |
|----------------|--|
| Regulation OHS | Regulation respecting occupational health and safety: Permissible exposure values for airborne contaminants (Quebec) |
| RTECS | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| Skin Sens. | Skin sensitization |
| STEL | Short-term exposure limit |
| STOT SE | Specific target organ toxicity - single exposure |
| TWA | Time-weighted average |
| UN RTDG | UN Recommendations on the Transport of Dangerous Good |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

Hazardous Products Regulations (HPR).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|--------------------------------------|
| H226 | Flammable liquid and vapour. |
| H227 | Combustible liquid. |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.