



ALPHA AROMATICS

Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

STR-HARVEST SCENTILATOR

Version number: GHS 1.0

Date of compilation: 2021-10-19

SECTION 1: Identification

1.1 Product identifier

Trade name **STR-HARVEST SCENTILATOR**
Alternative number(s) STR-HARVEST SCENTILATOR

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
2.6	flammable liquid	4	Flam. Liq. 4	H227
3.4S	skin sensitization	1	Skin Sens. 1	H317

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

Labeling

- Signal word warning

- Pictograms

GHS07





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- Hazard statements

H227 Combustible liquid.
H317 May cause an allergic skin reaction.

- Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403 Store in a well-ventilated place.
P501 Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling

METHYL CINNAMIC ALDEHYDE, HEXYL CINNAMIC ALDEHYDE, CITRAL 95, LINALOOL 925

2.3 Other hazards

This material is combustible, but will not ignite readily.

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
METHYL CINNAMIC ALDEHYDE	CAS No 101-39-3	5 - < 10	Skin Sens. 1A / H317	
BENZYL BENZOATE	CAS No 120-51-4	5 - < 10	Acute Tox. 4 / H302	
LAURYL METHACRYLATE	CAS No 142-90-5	1 - < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335	
BENZYL ALCOHOL	CAS No 100-51-6	1 - < 5	Acute Tox. 4 / H302 Acute Tox. 4 / H332	
DIETHYL MALONATE	CAS No 105-53-3	1 - < 5	Flam. Liq. 4 / H227	
CINNAMON BARK OIL	CAS No 8015-91-6	1 - < 5	Flam. Liq. 4 / H227 Acute Tox. 3 / H311	
FRUCTONE	CAS No 6413-10-1	1 - < 5	Flam. Liq. 4 / H227	



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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
ETHYL-2-METHYL BUTYRATE	CAS No 7452-79-1	1 - < 5	Flam. Liq. 3 / H226	
HEXYL CINNAMIC ALDEHYDE	CAS No 101-86-0	1 - < 5	Skin Sens. 1A / H317	
LINALOOL 925	CAS No 78-70-6	< 1	Flam. Liq. 4 / H227 Skin Sens. 1B / H317	
CITRAL 95	CAS No 5392-40-5	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317	

For full text of abbreviations: see SECTION 16.

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



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5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Nitrogen oxides (NO_x), 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.

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. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.



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- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

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

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

- 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.

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	citral	5392-40-5	OEL (BC)							i, H	"BC Regulation"
CA	citral	5392-40-5	OEL (ON-MoL)	5						iv, H	MoL

Notation

Ceiling-C

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

H absorbed through the skin

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
time-weighted average (unless otherwise specified)



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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
BENZYL BENZOATE	120-51-4	DNEL	5.1 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
BENZYL BENZOATE	120-51-4	DNEL	102 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
BENZYL BENZOATE	120-51-4	DNEL	2.6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
LAURYL METHACRYLATE	142-90-5	DNEL	41.66 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
DIETHYL MALONATE	105-53-3	DNEL	8.468 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
DIETHYL MALONATE	105-53-3	DNEL	1.213 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
FRUCTONE	6413-10-1	DNEL	23.5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
FRUCTONE	6413-10-1	DNEL	13.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
ETHYL-2-METHYL BUTYRATE	7452-79-1	DNEL	52.08 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
ETHYL-2-METHYL BUTYRATE	7452-79-1	DNEL	6.67 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
CITRAL 95	5392-40-5	DNEL	9 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
CITRAL 95	5392-40-5	DNEL	1.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
CITRAL 95	5392-40-5	DNEL	140 µg/cm ²	human, dermal	worker (industry)	chronic - local effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
BENZYL BENZOATE	120-51-4	PNEC	0.017 mg/l	aquatic organisms	freshwater	short-term (single instance)
BENZYL BENZOATE	120-51-4	PNEC	0.002 mg/l	aquatic organisms	marine water	short-term (single instance)



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Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
BENZYL BENZOATE	120-51-4	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
BENZYL BENZOATE	120-51-4	PNEC	10.66 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
BENZYL BENZOATE	120-51-4	PNEC	1.07 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
BENZYL BENZOATE	120-51-4	PNEC	2.12 mg/kg	terrestrial organisms	soil	short-term (single instance)
DIETHYL MALONATE	105-53-3	PNEC	11.8 µg/l	aquatic organisms	freshwater	short-term (single instance)
DIETHYL MALONATE	105-53-3	PNEC	1.18 µg/l	aquatic organisms	marine water	short-term (single instance)
DIETHYL MALONATE	105-53-3	PNEC	0.108 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
DIETHYL MALONATE	105-53-3	PNEC	4.62 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
DIETHYL MALONATE	105-53-3	PNEC	0.924 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
DIETHYL MALONATE	105-53-3	PNEC	8.557 µg/kg	terrestrial organisms	soil	short-term (single instance)
FRUCTONE	6413-10-1	PNEC	0.1 mg/l	aquatic organisms	freshwater	short-term (single instance)
FRUCTONE	6413-10-1	PNEC	0.01 mg/l	aquatic organisms	marine water	short-term (single instance)
FRUCTONE	6413-10-1	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
FRUCTONE	6413-10-1	PNEC	0.61 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
FRUCTONE	6413-10-1	PNEC	0.061 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
FRUCTONE	6413-10-1	PNEC	0.064 mg/kg	terrestrial organisms	soil	short-term (single instance)
ETHYL-2-METHYL BUTYRATE	7452-79-1	PNEC	0.026 mg/l	aquatic organisms	freshwater	short-term (single instance)
ETHYL-2-METHYL BUTYRATE	7452-79-1	PNEC	0.003 mg/l	aquatic organisms	marine water	short-term (single instance)
ETHYL-2-METHYL BUTYRATE	7452-79-1	PNEC	0.3 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ETHYL-2-METHYL BUTYRATE	7452-79-1	PNEC	0.392 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
ETHYL-2-METHYL BUTYRATE	7452-79-1	PNEC	0.039 mg/kg	aquatic organisms	marine sediment	short-term (single instance)



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Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
ETHYL-2-METHYL BUTYRATE	7452-79-1	PNEC	0.063 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)
CITRAL 95	5392-40-5	PNEC	0.007 mg/l	aquatic organisms	freshwater	short-term (single instance)
CITRAL 95	5392-40-5	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
CITRAL 95	5392-40-5	PNEC	1.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
CITRAL 95	5392-40-5	PNEC	0.125 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
CITRAL 95	5392-40-5	PNEC	0.013 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
CITRAL 95	5392-40-5	PNEC	0.021 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	VERY PALE YELLOW
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	72 °C
Flash point	185 °F
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Vapor pressure	8.5 kPa at 25 °C
Density	0.9874 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	27 °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
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9.2 Other information

Solvent content	91.39 %
Solid content	8.613 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

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.



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Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
BENZYL ALCOHOL	100-51-6	oral	1,580 mg/kg
BENZYL ALCOHOL	100-51-6	inhalation: vapour	11 mg/l/4h
BENZYL ALCOHOL	100-51-6	inhalation: dust/mist	>4.178 mg/l/4h
CINNAMON BARK OIL	8015-91-6	dermal	702 mg/kg

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

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
BENZYL BENZOATE	120-51-4	LC50	2.32 mg/l	fish	96 h
BENZYL BENZOATE	120-51-4	EC50	4.26 mg/l	aquatic invertebrates	24 h
BENZYL BENZOATE	120-51-4	ErC50	0.475 mg/l	algae	72 h
LAURYL METHACRYLATE	142-90-5	EC50	>10 µg/l	algae	72 h



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Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
BENZYL ALCOHOL	100-51-6	LC50	770 mg/l	fish	24 h
BENZYL ALCOHOL	100-51-6	EC50	230 mg/l	aquatic invertebrates	48 h
BENZYL ALCOHOL	100-51-6	ErC50	770 mg/l	algae	72 h
DIETHYL MALONATE	105-53-3	LC50	15.4 mg/l	fish	96 h
DIETHYL MALONATE	105-53-3	EC50	15.2 mg/l	fish	96 h
DIETHYL MALONATE	105-53-3	ErC50	>800 mg/l	algae	72 h
CINNAMON BARK OIL	8015-91-6	EL50	>15 mg/l	aquatic invertebrates	24 h
FRUCTONE	6413-10-1	LC50	>100 mg/l	fish	96 h
FRUCTONE	6413-10-1	ErC50	>100 mg/l	algae	72 h
FRUCTONE	6413-10-1	EC50	>100 mg/l	algae	72 h
ETHYL-2-METHYL BUTYRATE	7452-79-1	LC50	>100 mg/l	fish	96 h
ETHYL-2-METHYL BUTYRATE	7452-79-1	ErC50	>100 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
CITRAL 95	5392-40-5	LC50	6.78 mg/l	fish	96 h
CITRAL 95	5392-40-5	EC50	6.8 mg/l	aquatic invertebrates	48 h
CITRAL 95	5392-40-5	ErC50	103.8 mg/l	algae	72 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
BENZYL BENZOATE	120-51-4	EC50	>10,000 mg/l	microorganisms	3 h
LAURYL METHACRYLATE	142-90-5	EC50	>10,000 mg/l	microorganisms	180 min
BENZYL ALCOHOL	100-51-6	LC50	770 mg/l	fish	1 h
BENZYL ALCOHOL	100-51-6	EC50	66 mg/l	aquatic invertebrates	21 d
FRUCTONE	6413-10-1	EC50	>1,000 mg/l	microorganisms	3 h
ETHYL-2-METHYL BUTYRATE	7452-79-1	EC50	22.53 mg/l	aquatic invertebrates	21 d
LINALOOL 925	78-70-6	EC50	>100 mg/l	microorganisms	30 min



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Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
CITRAL 95	5392-40-5	EC50	160 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

Waste treatment-relevant information

Solvent reclamation/regeneration.

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.

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.



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IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ICAO-TI	Environmentally hazardous substance, liquid, n.o.s.
Technical name (hazardous ingredients)	DIOCTYL ADIPATE, VERDOX
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, VERDOX
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
 	
Special provisions (SP)	274, 331, 335, 375 (UN RTDG)
Excepted quantities (EQ)	E1 (UN RTDG)
Limited quantities (LQ)	5 L (UN RTDG)



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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
BENZYL BENZOATE	120-51-4		EU Fragrance Allergens
BENZYL ALCOHOL	100-51-6		EU Fragrance Allergens
HEXYL CINNAMIC ALDEHYDE	101-86-0		EU Fragrance Allergens
LINALOOL 925	78-70-6		EU Fragrance Allergens
CITRAL 95	5392-40-5		EU Fragrance Allergens



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- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
BENZYL ALCOHOL	100-51-6	I	

Legend

I American Industrial Hygiene Association (AIHA), "Workplace Environmental Exposure Level Guides" (1992), available from AIHA

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
DIETHYL MALONATE	105-53-3		F2

Legend

F2 Flammable - Second Degree

- Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
BENZENEMETHANOL	100-51-6	

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	2	material that must be moderately heated or exposed to relatively high ambient temperatures 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).



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Category	Degree of hazard	Description
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures 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.

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
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
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



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Abbr.	Descriptions of used abbreviations
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
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
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.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.



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Code	Text
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
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.