according to Regulation (EU) No 2020/878

Product name: CAR AIR FRESHENER-NEW CAR

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

1.1 Product identifier

Product name : CAR AIR FRESHENER-NEW CAR

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

Use of the : Car air freshener

Substance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : FRSH SCENTS LIMITED

Address : Unit 04-05, 16th Floor, The Broadway No. 54 62 Lockhart Road,

Wanchai, Hong Kong

Telephone : +86 769 88288882

E-mail address : DORIS@FRSHSCENTSCHINA.COM

UK Importer : JRP Distribution Ltd | PO20 2FT | Tel:+44 (0)1903 750355

EU Representative : Authorised Rep Compliance Ltd., Ground Floor, 71 Lower Baggot Street,

Dublin, D02 P593, Ireland.

1.4 Emergency telephone number

Emergency telephone : ChemTel Inc.

number (800)255-3924 (North America)

+1 (813)248-0585 (International)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Skin Sens. 1 H317 Aquatic Chronic 2 H411

2.1.2 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



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Signal word: Warning

Hazard statements:

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H411 Toxic to aquatic life with long lasting effects

Precautionary statements:

P264 Wash exposed skin thoroughly after handling.

P280 Wear protective gloves / protective clothing / eye protection / face

protection.

P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.
P302 + P352 IF ON SKIN: Wash with plenty water.

P321 Specific treatment (see section 4 on this SDS).
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with

 $local/regional/national/international\ regulations.$

Supplemental Hazard information (EU): Not applicable.

Derogations from labelling requirements

Hazard pictograms



Signal word: Warning

Hazard statements:

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H411 Toxic to aquatic life with long lasting effects

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P273 Avoid release to the environment.
P302 + P352 IF ON SKIN: Wash with plenty water
P321 Specific treatment (see section 4 on SDS)

P332 + P313 If skin irritation occurs: Get medical advice/attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P391 Collect spillage.

2.3 Other hazards

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This product contains no substances assessed to be PBT or vPvB at levels of 0.1% or higher.

Endocrine disrupting properties

Environment : The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

Human Health : The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3. Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

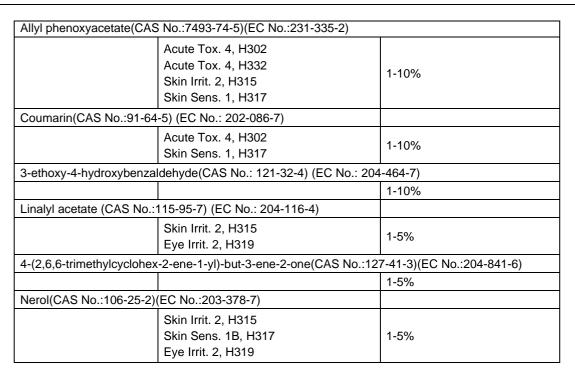
Registration number	Classification according to	Concentration
	Regulation (EC) No 1272/2008	(% w/w)
Isononyl acetate(CAS No.: 40379-24-6) (EC No.: 254-898-6)		
		10-20%
α-hexylcinnamaldehyde(CAS No.:101-86-0)(EC No.:202-983-3)		
	Skin Sens. 1B, H317	
	Aquatic Acute 1, H400	10-20%
	Aquatic Chronic 2, H411	
Benzyl acetate(CAS No.: 140-11-4) (EC No.: 205-399-7)		
		5-15%
4-tert-butylcyclohexyl acetate(CAS No.: 32210-23-4) (EC No.: 250-954-9)		
	Skin Sens. 1B, H317	5-15%
Verdox/otbcha(CAS No.: 88-41-5) (EC No.: 201-828-7)		
	Aquatic Chronic 2, H411	1-10%
Linalool(CAS No.:78-70-6) (EC No.:201-134-4)		
	Skin Sens. 1B, H317	1-10%
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one(CAS No.:1506-02-1)(EC		
No.:216-133-4)		
	Acute Tox. 4, H302	
	Aquatic Acute 1, H400	1-10%
	Aquatic Chronic 1, H410	

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SECTION 4. First aid measures

4.1 Description of first aid measures

General advice : If potential for exposure exists refer to Section 8 for specific personal

protective equipment.

If inhaled : Not expected to be irritating to the respiratory system.

On skin contact : Wash with plenty of soap and water.

On contact with eyes : 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.

On ingestion : Rinse mouth with water. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Further important symptoms and effects are so far not known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

according to Regulation (EU) No 2020/878

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Suitable extinguishing

media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide

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fire extinguishers. Foam.

5.2 Special hazards arising from the substance or mixture

Specific hazards during :

firefighting

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to:

Carbon monoxide. Carbon dioxide. Nitrogen oxides.

5.3 Advice for firefighters

Special protective

equipment

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat,

trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Further information : No information available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation. Avoid skin contact.

6.2 Environmental precautions

Environmental precautions

Do not release to the environment.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Absorb spill and scrub the area with detergent. Dilute with water.

Ventilate area and eliminate all ignition sources.

6.4 Reference to other sections

References to other sections, if applicable, have been provided in the previous sub-sections.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Keep out of reach of children. Read label before use.

Advice on protection

against fire and explosion

No information available.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for

storage

areas and containers

Protect against external exposure, such as heat, high temperatures.

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7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No data available.

8.2 Exposure controls

Engineering controls : Not required under normal conditions of use.

Eye protection : Not required for normal handling. Wear eye/face protection.

Hand protection : Not required under normal conditions of use. Wear protective gloves to

handle contents of damaged or leaking units.

Body and skin protection : Not required under normal conditions of use. Protection may be required

for spills.

General safety and

hygiene measures

Not required under normal conditions of use.

Respiratory protection : Not required under normal conditions of use.

Environmental exposure controls

See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: : liquid

Odour : pleasant

Odour threshold : no data available

pH : no data available

Melting point : no data available

Boiling point : no data available

Flash point : 73.5°C

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Evaporation rate : no data available

Flammability (solid, gas) : not applicable

Upper/lower flammability :

or explosive limits

no data available

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Vapour pressure : no data available

Vapour density : no data available

Relative density : no data available

Water solubility : not determined

Partition coefficient: n-

octanol/water

no data available

Auto-ignition temperature: no data available

Decomposition

temperature

no data available

Viscosity, dynamic : not determined

Explosive properties : none

Oxidising properties : none

9.2 Other information

no data available

SECTION 10: Stability and Reactivity

10.1 Reactivity : No hazardous reactions if stored and handled as prescribed/indicated.

10.2 Chemical stability : Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Product will not undergo polymerization.

10.4 Conditions to

avoid

Avoid all sources of ignition: heat, sparks, open flame.

10.5 Incompatible

materials

Strong acids. Strong bases. Strong oxidizers.

10.6 Hazardous decomposition

products

No hazardous decomposition products if stored and handled as

prescribed/indicated.

SECTION 11: Toxicological information

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

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Information on likely routes of exposure

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Acute toxicity (represents short term exposures with immediate effects - no chronic/delayed effects known unless otherwise noted)

Acute Toxicity Endpoints:

Acute oral toxicity

Information for the Product:

Shall not be classified as acutely toxic (oral).

As product: Single dose oral LD50 has not been determined.

Based on information for component(s): LD50, > 2 000 mg/kg Estimated.

Information for components:

α-hexylcinnamaldehyde

LD50, Rat, >2000 mg/kg, estimated

4-tert-butylcyclohexyl acetate

LD50, rat, ca. 3370 mg/kg bw, OECD Guideline 401

Coumarin

LD50, rat , 300-2000 mg/kg bw

Verdox/otbcha

LD50, Rat, >2000 mg/kg, estimated

Linalool

GHS criteria not met

LD50, rat, 2790 mg/kg, OECD Guideline 401

 $\hbox{1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)} ethan-\hbox{1-one}$

Category 4 based on GHS criteria

LD50, rat, 920 mg/kg bw, OECD Guideline 401

Allyl phenoxyacetate

Acute Tox. Cat. 4

LD50, rat, 835 mg/kg bw,

OECD Guideline 401

Linalyl acetate

LD50, Rat, 14,550 mg/kg

Geraniol

practically nontoxic

LD50, rat, 3600 mg/kg bw

Nerol

GHS criteria not met

LD50, rat, >2000 mg/kg bw,

OECD Guideline 401

3-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde

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LD50, Rat, >2000 mg/kg, estimated

5-methylheptan-3-one oxime

GHS criteria not met LD50, rat, > 2000 mg/kg

Acute dermal toxicity

Information for the Product:

Shall not be classified as acutely toxic (dermal).

As product: The dermal LD50 has not been determined.

Based on information for component(s): LD50, > 2 000 mg/kg Estimated.

Information for components:

α-hexylcinnamaldehyde

LC50, rat, >20 mg/L, estimated

4-tert-butylcyclohexyl acetate

LC50, rat, >20 mg/L, estimated

Coumarin

LC50, rat , >20 mg/L

Verdox/otbcha

LC50, rat, >20 mg/L, estimated

Linalool

LC50, female mouse, 1h, >20mg

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

LC50, rat, >20 mg/L, estimated

Allyl phenoxyacetate

LC50, rat, >20 mg/L, estimated

Linalyl acetate

LC50, mice, 4h, > 1,028 mg/m3

Geraniol

LC50, rat, >20 mg/L, estimated

Nerol

LC50, rat, >20 mg/L, estimated

3-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde

LC50, rat, >20 mg/L, estimated

5-methylheptan-3-one oxime

LC50, rat, >20 mg/L, estimated

Acute inhalation toxicity

Information for the Product:

Shall not be classified as acutely toxic (inhalation).

As product: The LC50 has not been determined.

Information for components:

α-hexylcinnamaldehyde

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LD50, rabbit, >2000 mg/kg, estimated

4-tert-butylcyclohexyl acetate

GHS criteria not met

LD50, rabbit, > 4680 mg/kg bw

Coumarin

LD50, rabbit, >2000mg/kg bw

Verdox/otbcha

LD50, rabbit, >2000 mg/kg, estimated

Linalool

GHS criteria not met

LD50, rabbits, 5610 mg/kg, OECD Guideline 402

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

GHS criteria not met

LD50, female rat, 7.94 g/kg

Allyl phenoxyacetate

LD50, rat, > 2000 mg/kg bw, OECD Guideline 402

Linalyl acetate

LD50, Rabbits, >5000 mg/kg bw

Geraniol

LD50, rabbit, > 5 000 mg/kg bw

Nerol

GHS criteria not met

LD50, rabbits, >2000 mg/kg bw

3-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde

LD50, rabbit, >2000 mg/kg, estimated

5-methylheptan-3-one oxime

GHS criteria not met

LD50, rabbit, >5000 mg/kg.

Skin corrosion/irritation

Information for the Product:

Causes skin irritation.

Information for components:

α-hexylcinnamaldehyde

Shall not be classified as corrosive/irritant to skin

4-tert-butylcyclohexyl acetate

Shall not be classified as corrosive/irritant to skin

Coumarin

Shall not be classified as corrosive/irritant to skin

Verdox/otbcha

Shall not be classified as corrosive/irritant to skin

Linalool

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Shall not be classified as corrosive/irritant to skin

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

Shall not be classified as corrosive/irritant to skin

Allyl phenoxyacetate

Causes skin irritation

Linalyl acetate

Causes skin irritation

Geraniol

Shall not be classified as corrosive/irritant to skin

Nerol

Causes skin irritation

3-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde

Shall not be classified as corrosive/irritant to skin

5-methylheptan-3-one oxime

Shall not be classified as corrosive/irritant to skin

Serious eye damage/eye irritation

Information for the Product:

Shall not be classified as irritant to eye.

Information for components:

α-hexylcinnamaldehyde

Shall not be classified as irritant to eye

4-tert-butylcyclohexyl acetate

Shall not be classified as irritant to eye

Coumarin

Shall not be classified as irritant to eye

Verdox/otbcha

Shall not be classified as irritant to eye

Linalool

Shall not be classified as irritant to eye

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

Shall not be classified as irritant to eye

Allyl phenoxyacetate

Shall not be classified as irritant to eye

Linalyl acetate

Causes serious eye irritation

Geraniol

Shall not be classified as irritant to eye

Nerol

Causes serious eye irritation

3-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde

Shall not be classified as irritant to eye

5-methylheptan-3-one oxime

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Causes serious eye irritation

Respiratory or skin sensitisation

Information for the Product:

May cause an allergic skin reaction.

Information for components:

α-hexylcinnamaldehyde

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

4-tert-butylcyclohexyl acetate

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Coumarin

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Verdox/otbcha

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Linalool

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Allyl phenoxyacetate

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Linalyl acetate

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For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Geraniol

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Nerol

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

3-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde

For skin sensitization:

May cause an allergic skin reaction

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

5-methylheptan-3-one oxime

For skin sensitization:

Shall not be classified as a skin sensitiser

For respiratory sensitization:

Shall not be classified as a respiratory sensitiser.

Germ cell mutagenicity

Information for the Product:

Shall not be classified as germ cell mutagenic.

Information for components:

α-hexylcinnamaldehyde

Shall not be classified as germ cell mutagenic

4-tert-butylcyclohexyl acetate

Shall not be classified as germ cell mutagenic

Coumarin

Shall not be classified as germ cell mutagenic

Verdox/otbcha

Shall not be classified as germ cell mutagenic

Linalool

Shall not be classified as germ cell mutagenic

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

Shall not be classified as germ cell mutagenic

Allyl phenoxyacetate

Shall not be classified as germ cell mutagenic

Linalyl acetate

Shall not be classified as germ cell mutagenic

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Shall not be classified as germ cell mutagenic

Nerol

Geraniol

Shall not be classified as germ cell mutagenic

3-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde

Shall not be classified as germ cell mutagenic

5-methylheptan-3-one oxime

Shall not be classified as germ cell mutagenic

Carcinogenicity

Information for the Product:

Shall not be classified as carcinogenic.

Information for components:

α-hexylcinnamaldehyde

Shall not be classified as carcinogenic

4-tert-butylcyclohexyl acetate

Shall not be classified as carcinogenic

Coumarin

Shall not be classified as carcinogenic

Verdox/otbcha

Shall not be classified as carcinogenic

Linalool

Shall not be classified as carcinogenic

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

Shall not be classified as carcinogenic

Allyl phenoxyacetate

Shall not be classified as carcinogenic

Linalyl acetate

Shall not be classified as carcinogenic

Geraniol

Shall not be classified as carcinogenic

Nerol

Shall not be classified as carcinogenic

3-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde

Shall not be classified as carcinogenic

5-methylheptan-3-one oxime

Shall not be classified as carcinogenic

Reproductive toxicity

Information for the Product:

Shall not be classified as a reproductive toxicant.

Information for components:

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α-hexylcinnamaldehyde

Shall not be classified as a reproductive toxicant

4-tert-butylcyclohexyl acetate

Shall not be classified as a reproductive toxicant

Coumarin

Shall not be classified as a reproductive toxicant

Verdox/otbcha

Shall not be classified as a reproductive toxicant

Linalool

Shall not be classified as a reproductive toxicant

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

Shall not be classified as a reproductive toxicant

Allyl phenoxyacetate

Shall not be classified as a reproductive toxicant

Linalyl acetate

Shall not be classified as a reproductive toxicant

Geraniol

Shall not be classified as a reproductive toxicant

Nerol

Shall not be classified as a reproductive toxicant

3-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde

Shall not be classified as a reproductive toxicant

5-methylheptan-3-one oxime

Shall not be classified as a reproductive toxicant

STOT-single exposure

Information for the Product:

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

Information for components:

α-hexylcinnamaldehyde

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

4-tert-butylcyclohexyl acetate

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

Coumarin

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

Verdox/otbcha

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

Linalool

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

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

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

Allyl phenoxyacetate

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

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Linalyl acetate

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

Geraniol

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

Nerol

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

3-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde

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

5-methylheptan-3-one oxime

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

STOT-repeated exposure

Information for the Product:

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

Information for components:

α-hexylcinnamaldehyde

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

4-tert-butylcyclohexyl acetate

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

Coumarin

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

Verdox/otbcha

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

Linalool

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

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

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

Allyl phenoxyacetate

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

Linalyl acetate

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

Geraniol

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

Nerol

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

3-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde

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

5-methylheptan-3-one oxime

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

Aspiration Hazard

Information for the Product:

Shall not be classified as presenting an aspiration hazard.

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Information for components:

α-hexylcinnamaldehyde

Shall not be classified as presenting an aspiration hazard

4-tert-butylcyclohexyl acetate

Shall not be classified as presenting an aspiration hazard

Coumarin

Shall not be classified as presenting an aspiration hazard

Verdox/otbcha

Shall not be classified as presenting an aspiration hazard

Linalool

Shall not be classified as presenting an aspiration hazard

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

Shall not be classified as presenting an aspiration hazard

Allyl phenoxyacetate

Shall not be classified as presenting an aspiration hazard

Linalyl acetate

Shall not be classified as presenting an aspiration hazard

Geraniol

Shall not be classified as presenting an aspiration hazard

Nerol

Shall not be classified as presenting an aspiration hazard

3-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde Shall not be classified as presenting an aspiration hazard

5-methylheptan-3-one oxime

Shall not be classified as presenting an aspiration hazard

11.2 Information on other hazards Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Information for components:

α-hexylcinnamaldehyde

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

4-tert-butylcyclohexyl acetate

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Coumarin

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Verdox/otbcha

according to Regulation (EU) No 2020/878

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parties according to REACH Article

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The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Linalool

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Allyl phenoxyacetate

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Linalyl acetate

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Geraniol

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Nerol

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

3-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

5-methylheptan-3-one oxime

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

SECTION 12: Ecological information

12.1 Toxicity

α-hexylcinnamaldehyde

4-tert-butylcyclohexyl acetate

Short-term toxicity to fish

LC50, 96h, 8.6 mg/L, EU Method C.1

Short-term toxicity to aquatic invertebrates

EC50, Daphnia magna, 48h, 5.3 mg/L, OECD Guideline 202

Toxicity to aquatic algae and cyanobacteria

ErC50, 72h, 22 mg/L, OECD Guideline 201

Toxicity to microorganisms

EC50, 3h, 302 mg/L, EC Guideline 88/302/EC

Coumarin

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Short-term toxicity to fish

LC50, fathead minnow, 96h, 2.94 mg/L Long-term toxicity to fish

NOEC, 21 d, 0.5 mg/L

NOEC, 30d, 0.191 mg/L Long-term toxicity to aquatic invertebrates

Toxicity to aquatic algae and cyanobacteria EC50, 96h, 1.452 mg/L

Toxicity to microorganisms IC50, activated sludge, 3h, 640 mg/L

Linalool

Short-term toxicity to fish LC50, Salmo gairdneri, 96h, 27.8 mg/l, OECD guideline 203

Short-term toxicity to aquatic invertebrates EC50, Daphnia magna, 48h, 59 mg/l, OECD 202, GLP

Toxicity to aquatic algae and cyanobacteria EC50, Desmodesmus subspicatus, 96h, 156.7 mg/l EC10, Desmodesmus subspicatus, 96h, 54.3 mg/l

Toxicity to microorganisms EC50, activated sludge, > 100 mg/l, OECD 209

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

Short-term toxicity to fish

LC50, Lepomis macrochirus, 96h, 1.49 mg/L, OECD Guideline 204

Long-term toxicity to fish NOEC, 34d, 35 $\mu g/L$, OECD Guideline 210

Short-term toxicity to aquatic invertebrates LC50, Nicotra spinipes, 96h, 0.61 mg/L

Long-term toxicity to aquatic invertebrates NOEC, D. magna, 21d, 0.196 mg/L

Toxicity to aquatic algae and cyanobacteria NOEC, Alga, 72h, 0.404 mg/L,

OECD Guideline 201

EC50, Alga, 72h, >0.835 mg/L, OECD Guideline 201

Toxicity to microorganisms Not toxic to the inoculum NOEC, 22 mg/L

Allyl phenoxyacetate

Short-term toxicity to fish LC50, Brachydanio rerio, 96 h, 0.133 mg/L, OECD Guideline 203

Short-term toxicity to aquatic invertebrates EC50, Daphnia magna, 48h, 2.07 mg/L, OECD Guideline 202

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Toxicity to aquatic algae and cyanobacteria

EC10, 72h, 12.7 mg/L EC50, 72h, 24.9 mg/L

Toxicity to microorganisms

NOEC, activated sludge, 14d, ≥ 2 mg/L, OECD 301 D

Linalyl acetate

Short-term toxicity to fish

LC50, 96h, 11 mg/L, OECD Guideline 203

Short-term toxicity to aquatic invertebrates EC50, 48h, 59 mg/L, OECD Guideline 202

Toxicity to aquatic algae and cyanobacteria

EC50, 72h, 68 mg/L

NOEC, 3.9 mg/L.

Toxicity to microorganisms

NOEC, 25.7 mg/L

Geraniol

Short-term toxicity to fish

Acuteyl harmful to fish

LC50, Brachydanio rerio, 96h, 22 mg/l, OECD guideline 203

Short-term toxicity to aquatic invertebrates

Acutely harmful to aquatic invertebrates.

EC50, 48h, 10.8 mg/l, OECD guideline 202

Toxicity to aquatic algae and cyanobacteria

Acutely harmful for aquatic algae.

EC50, algae, 72h, 13.9 mg/l, OECD 201

Toxicity to microorganisms

Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible.

EC50, 30min, 70 mg/l, OECD 209

Nerol

Short-term toxicity to fish

LC50, Danio rerio, 96h, 20.3 mg/L, OECD Guideline 203

Short-term toxicity to aquatic invertebrates

EC50, Daphnia magna, 48h, 32.4 mg/L, OECD Guideline 202

Toxicity to aquatic algae and cyanobacteria

EC50, Alga, 72h, 7.45 mg/L, OECD Guideline 201

Toxicity to microorganisms

EC50, activated sludge, 3h, 241 mg/L

EC10, activated sludge, 3h, 129 mg/L

5-methylheptan-3-one oxime

Short-term toxicity to fish LC50, 96h, 51.451 mg/L

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Short-term toxicity to aquatic invertebrates

EC50, daphnia magna, 48h, 44 mg/L, OECD Guideline 202

Toxicity to aquatic algae and cyanobacteria

NOEC, Alga, 72h, 10 mg/L, OECD Guideline 201

EC50, Alga, 72h, 62 mg/L, OECD Guideline 201

Toxicity to microorganisms

NOEC, 28d, 100 mg/L, OECD Guideline 301 F

12.2 Persistence and degradability

4-tert-butylcyclohexyl acetate

Readily biodegradable

Coumarin

Readily biodegradable

Linalool

Readily biodegradable

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

Inherently biodegradable Biodegradation: 21%

Exposure time: 21d

Method: OECD Guideline 301 D

Allyl phenoxyacetate Readily biodegradable

Biodegradation: 68% Exposure time: 28d

Method: OECD Guideline 301 D

Linalyl acetate

Readily biodegradable Biodegradation: 76% Exposure time: 28d

-

Geraniol

Readily biodegradable Biodegradation: 90 - 100 %

Exposure time: 3d Method: OECD 301A

Nerol

Readily biodegradable Biodegradation: 90% Exposure time: 28d

Method: OECD Guideline 301 D

5-methylheptan-3-one oxime

Under test conditions no biodegradation observed

12.3 Bioaccumulative potential

4-tert-butylcyclohexyl acetate

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The substance is not considered highly bioaccumulable.

BCF: 334.6 L/kg estimated

log BCF: 2.524

Linalool

The substance has a low potential for bioaccumulation

log Kow <3

 $\hbox{1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)} ethan-\hbox{1-one}$

BCF: ca. 600 Linalyl acetate

BCF: 174 L/kg ww.

Geraniol

The substance is not expected to significantly accumulate in organisms.

Nerol

BCF: 35.4 L/kg ww

12.4 Mobility in soil

4-tert-butylcyclohexyl acetate

The substance is environmentally slightly mobile in soils

Koc: 3923(20 °C) LogKoc: 3.59

Coumarin

Koc: 42.66(20 °C) LogKoc: 1.63

Linalool

Koc: 75 L/kg(20 °C)

 $\hbox{1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl) ethan-1-one}\\$

Koc: 29512(20 °C)

Allyl phenoxyacetate
Koc: 156.05(20 °C)
LogKoc: 2.19

Linalyl acetate Koc: 432.4(20 °C)

Geraniol

Adsorption to solid soil phase is not expected.

log Koc: 1.85

Nerol

Koc: 143(20 °C) LogKoc: 2.155

5-methylheptan-3-one oxime

Koc: 164(20 °C) Log Koc: 2.216

12.5 Results of PBT and vPvB assessment

α-hexylcinnamaldehyde

according to Regulation (EU) No 2020/878

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This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

4-tert-butylcyclohexyl acetate

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Coumarin

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Verdox/otbcha

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Linalool

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Allyl phenoxyacetate

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Linalyl acetate

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Geraniol

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Nerol

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

3-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

5-methylheptan-3-one oxime

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

α-hexylcinnamaldehyde

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

4-tert-butylcyclohexyl acetate

according to Regulation (EU) No 2020/878

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The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Coumarin

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Verdox/otbcha

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Linalool

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Allyl phenoxyacetate

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Linalyl acetate

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Geraniol

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Nerol

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

3-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

5-methylheptan-3-one oxime

The substance is not considered to have endocrine disrupting properties according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

12.7 Other adverse effects

α-hexylcinnamaldehyde

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

4-tert-butylcyclohexyl acetate

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

Coumarin

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

Verdox/otbcha

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

Linalool

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

according to Regulation (EU) No 2020/878

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1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

Allyl phenoxyacetate

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

Linalyl acetate

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

Geraniol

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

Nerol

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

3-(4-hydroxy-4-methylpentyl)cyclohex-3-ene-1-carbaldehyde

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

5-methylheptan-3-one oxime

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not empty into drains. Avoid release to the environment. Refer to

special instructions/safety data sheets.

SECTION 14: Transport Information

Land transport

ADR/RID/ADN

14.1. UN number : not applicable14.2. UN proper shipping : not applicable

name:

14.3. Transport hazard : not applicable

class(es):

14.4. Packing group : not applicable

14.5. Environmental : no

hazards

14.6. Special precautions: none

for user

Sea transport

IMDG

14.1. UN number : not applicable14.2. UN proper shipping : not applicable

name:

14.3. Transport hazard : not applicable

class(es):

14.4. Packing group : not applicable

14.5. Environmental : no

hazards

according to Regulation (EU) No 2020/878

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14.6. Special precautions: none

for user

14.7. Maritime transport

in bulk according to IMO

instruments

Consult IMO regulations before transporting ocean bulk

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Air transport

IATA/ICAO

14.1. UN number: not applicable 14.2. UN proper shipping: not applicable

14.3. Transport hazard not applicable

class(es):

14.4. Packing group: not applicable

14.5. Environmental

hazards:

14.6. Special precautions: none

for user

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH Regulation (EC) No 1907/2006

This product contains only components that have been either registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH)., Polymers are exempted from registration under REACH. All relevant starting materials and additives have been either registered or are exempt from registration according to Regulation (EC) No. 1907/2006 (REACH)., The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Listed in Regulation: Not applicable

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture.

SECTION 16: Other information

Full text of H-Statements referred to under section 3.

H302 Harmful if swallowed

according to Regulation (EU) No 2020/878

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H317 May cause an allergic skin reaction
H319 Causes serious eye irritation

H332 Harmful if inhaled
H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects
 H411 Toxic to aquatic life with long lasting effects

Abbreviations and acronyms

ADR European Agreement concerning the International Carriage of

Dangerous Goods by Road

ATE Acute toxicity estimate

CAS-No. Chemical Abstracts Service number CLP Classification, Labelling and Packaging

EbC50 Concentration at which 50% reduction of biomass is observed

EC50 Median effective concentration

EN European Norm

EPA Environmental Protection Agency

ErC50 Concentration at which a 50% inhibition of growth rate is observed

EyC50 Concentration at which 50 % inhibition of yield is observed

IATA_C International Air Transport Association (Cargo)

IBCInternational Bulk Chemical CodeICAOInternational Civil Aviation OrganizationISOInternational Standard OrganizationIMDGInternational Maritime Dangerous Goods

LC50 Median Lethal Concentration

LD50 Median Lethal Dose

LOEC Lowest Observed Effect Concentration

LOEL Lowest observed effect level

MARPOL International Convention for the Prevention of Marine Pollution from

Ships

n.o.s. Not Otherwise Specified

NOAEC No Observed Adverse Effect Concentration

NOAEL No observed adverse effect level NOEC No Observed Effect Concentration

NOEL No Observed Effect Level

OECD Organisation for Economic Co-operation and Development OPPTS Office of Prevention, Pesticides and Toxic Substances

PBT Persistent, Bioaccumulative and Toxic

STEL Short term exposure limit
TWA Time Weighted Average (TWA)

vPvB very Persistent and very Bioaccumulative

according to Regulation (EU) No 2020/878

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The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.