

acc. to 29 CFR 1910.1200 App D

## Refresh Your Car Diffuser Rejuvenating Ocean Breeze

Version number: GHS 5.0 Revision: 2020-10-21 Replaces version of: 2020-09-15 (GHS 4)

#### **SECTION 1: Identification**

#### 1.1 Product identifier

Trade name Refresh Your Car Diffuser Rejuvenating Ocean

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

Relevant identified uses Consumer use: Air Freshener

#### 1.3 Details of the supplier of the safety data sheet

Energizer Manufacturing, Inc. 25225 Detroit Rd. Westlake OH 44145 United States

Telephone: 800-383-7323; 314-985-2000 (USA / CANADA)

Website: http://data.energizer.com

Energizer Trading Ltd.

Sword House, Totteridge Road, High Wycombe, HP13 6DG, UK

Telephone: +44(0)8000353376

e-mail: ConsumerServiceEU@energizer.com

## 1.4 Emergency telephone number

Emergency information service 1-314-985-1511 Int'l: 1-800-526-4727

This number is only available during the following

office hours: Mon-Fri 09:00 AM - 05:00 PM

#### **SECTION 2: Hazard(s) identification**

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard state- ment
A.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
A.4S	skin sensitization	1	Skin Sens. 1	H317

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word warning

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#### - Pictograms

GHS07



#### - Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

#### - 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.

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

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

P280 Wear protective gloves.

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 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international regula-

tions.

#### 2.2.1.7 - Hazardous ingredients for labelling

Tetramethyl Acetyloctahydronaphthalenes, 3,7,7-trimethylbicyclo[4.1.0]hept-3-ene, (E)-anethole, 3-(p-methoxyphenyl)-2-methylpropionaldehyde, Benzyl salicylate, dipentene, Eugenol

#### 2.3 Other hazards

Hazards not otherwise classified

Toxic to aquatic life with long lasting effects (GHS category 2: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not relevant (mixture)

#### 3.2 Mixtures

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#### Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Tetramethyl Acetyloctahy- dronaphthalenes	CAS No 68155-66-8	10 - < 25	Skin Irrit. 2 / H315 Skin Sens. 1 / H317	<u>(1)</u>
3-(p-methoxyphenyl)-2- methylpropionaldehyde	CAS No 5462-06-6	1-<5	Eye Irrit. 2 / H319 Skin Sens. 1 / H317	<u>(1)</u>
(E)-anethole	CAS No 4180-23-8	1-<5	Skin Sens. 1 / H317	<u>(1)</u>
3,7,7- trimethylbicyclo[4.1.0]hept -3-ene	CAS No 13466-78-9	1-<5	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
dipentene	CAS No 138-86-3 5989-27-5 5989-54-8	1-<5	Acute Tox. 4 / H312 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Flam. Liq. 3 / H226	<b>(1)</b>
Eugenol	CAS No 97-53-0	1-<5	Eye Irrit. 2 / H319 Skin Sens. 1B / H317	1

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. In case of respiratory tract irritation, consult a physician. 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.

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## 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.

#### **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.

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#### 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.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Coun try	Name of agent	CAS No	Iden- tifier	TWA [ppm]	TWA [mg/ m³]	STEL [ppm]	STEL [mg/ m³]	Ceil- ing-C [ppm]	Ceil- ing-C [mg/ m³]	Nota tion	Sourc e
US	3-carene	13466- 78-9	TLV®	20							AC- GIH® 2019

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur 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 timeweighted average (unless otherwise specified

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#### Relevant DNELs of components of the mixture

Name of substance	CAS No	End- point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
3,7,7-trimethylbi- cyclo[4.1.0]hept-3-ene	13466-78-9	DNEL	5.69 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - system- ic effects
3,7,7-trimethylbi- cyclo[4.1.0]hept-3-ene	13466-78-9	DNEL	0.8 mg/kg bw/day	human, dermal	worker (industry)	chronic - system- ic effects
Eugenol	97-53-0	DNEL	21.2 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - system- ic effects
Eugenol	97-53-0	DNEL	6 mg/kg bw/day	human, dermal	worker (industry)	chronic - system- ic effects

## Relevant PNECs of components of the mixture

Name of substance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
3,7,7-trimethylbi- cyclo[4.1.0]hept-3-ene	13466-78-9	PNEC	0.44 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
3,7,7-trimethylbi- cyclo[4.1.0]hept-3-ene	13466-78-9	PNEC	0.044 <sup>µg</sup> / <sub>I</sub>	aquatic organisms	marine water	short-term (single instance)
3,7,7-trimethylbi- cyclo[4.1.0]hept-3-ene	13466-78-9	PNEC	3.26 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treat- ment plant (STP)	short-term (single instance)
3,7,7-trimethylbi- cyclo[4.1.0]hept-3-ene	13466-78-9	PNEC	104 <sup>µg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sedi- ment	short-term (single instance)
3,7,7-trimethylbi- cyclo[4.1.0]hept-3-ene	13466-78-9	PNEC	10.4 <sup>µg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)
3,7,7-trimethylbi- cyclo[4.1.0]hept-3-ene	13466-78-9	PNEC	20.8 <sup>µg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)
Eugenol	97-53-0	PNEC	11.3 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	water	intermittent re- lease
Eugenol	97-53-0	PNEC	1.13 <sup>µg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
Eugenol	97-53-0	PNEC	0.113 <sup>µg</sup> / <sub>I</sub>	aquatic organisms	marine water	short-term (single instance)
Eugenol	97-53-0	PNEC	0.081 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sedi- ment	short-term (single instance)
Eugenol	97-53-0	PNEC	0.008 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)
Eugenol	97-53-0	PNEC	0.015 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)

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#### 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.

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	various
Odor	characteristic

#### Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	170.2 °C at 102.8 kPa
Flash point	98 °C at 1 atm

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Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	not determined
Vapor pressure	273 Pa at 20 °C
Density	not determined
Vapor density	this information is not available
Relative density	information on this property is not available
Solubility(ies)	not determined

#### Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	390 °C
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

#### 9.2 Other information

Temperature class (USA, acc. to NEC 500)	T2 (maximum permissible surface temperature on the equipment:
	300°C)

## **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.

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#### 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 OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

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
dipentene	138-86-3 5989-27-5 5989-54-8	dermal	2,000 <sup>mg</sup> / <sub>kg</sub>

#### Skin corrosion/irritation

Causes skin irritation.

#### 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.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
Eugenol	97-53-0	3	

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Legend

3 Not classifiable as to carcinogenicity in humans

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

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
3,7,7- trimethylbicyclo[4.1.0]h ept-3-ene	13466-78-9	LC50	0.44 <sup>mg</sup> / <sub>l</sub>	fish	96 h
3,7,7- trimethylbicyclo[4.1.0]h ept-3-ene	13466-78-9	EC50	0.8 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
3,7,7- trimethylbicyclo[4.1.0]h ept-3-ene	13466-78-9	ErC50	0.45 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Eugenol	97-53-0	LC50	13 <sup>mg</sup> / <sub>l</sub>	fish	24 h
Eugenol	97-53-0	EC50	1.05 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Eugenol	97-53-0	ErC50	24 <sup>mg</sup> / <sub>l</sub>	algae	72 h

#### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
3,7,7- trimethylbicyclo[4.1.0]h ept-3-ene	13466-78-9	EC50	326 <sup>mg</sup> / <sub>l</sub>	microorganisms	3 h

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Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Eugenol	97-53-0	LC50	13 <sup>mg</sup> / <sub>l</sub>	fish	24 h

#### 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 Other adverse effects

Endocrine disrupting potential

None of the ingredients are listed.

#### **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 DOT) 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** 3082

**I4.2 UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Technical name (hazardous ingredients)

Tetramethyl Acetyloctahydronaphthalenes, Cis-3-

Hexenyl Salicylate

#### 14.3 Transport hazard class(es)

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Class 9 (environmentally hazardous)

**14.4 Packing group** III (substance presenting low danger)

**14.5** Environmental hazards hazardous to the aquatic environment

Environmentally hazardous substance (aquatic Tetramethyl Acetyloctahydronaphthalenes, Cis-3-

environment) Hexenyl Salicylate

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**

Not regulated when carried in single or combination packaging containing a net quantity of 5L or less or 5 kg or less per the following:

DOT: 171.4(2) ADR: SP 375 IMDG: 2.10.2.7

IATA: special provision A197, DOT

#### Transport of dangerous goods by road or rail (49 CFR US DOT)

Index number 3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.

- Particulars in the shipper's declaration

UN3082, Environmentally hazardous substance, liquid no substance, liquid no substance.

quid, n.o.s., (contains: Tetramethyl Acetyloctahydronaphthalenes, Cis-3-Hexenyl Salicylate), 9, III

Class 9

Packing group III

Danger label(s) 9, fish and tree



Environmental hazards yes (hazardous to the aquatic environment)

Special provisions (SP)

8, 146, 173, 335, IB3, T4, TP1, TP29

ERG No 171

**International Maritime Dangerous Goods Code (IMDG)** 

UN number 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI-

QUID, N.O.S.

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- Particulars in the shipper's declaration UN3082, ENVIRONMENTALLY HAZARDOUS SUB-

STANCE, LIQUID, N.O.S., (contains: Tetramethyl Acetyloctahydronaphthalenes, Cis-3-Hexenyl Sali-

cylate), 9, III

Class

Marine pollutant yes (hazardous to the aquatic environment)

Packing group III

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)

UN number 3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.

- Particulars in the shipper's declaration UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: Tetramethyl Acetyloctahy-

quid, n.o.s., (contains: Tetramethyl Acetyloctahydronaphthalenes, Cis-3-Hexenyl Salicylate), 9, III

Class

Environmental hazards yes (hazardous to the aquatic environment)

Packing group III

Danger label(s) 9, fish and tree

Special provisions (SP) A97, A158, A197

Excepted quantities (EQ) E1
Limited quantities (LQ) 30 kg

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#### **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations specific for the product in question National regulations (United States)

**Toxic Substance Control Act (TSCA)** all ingredients are listed

Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313) none of the ingredients are listed

#### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4) none of the ingredients are listed

#### **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	Name acc. to inventory	CAS No	Functional- ity	Authoritative Lists
Tetramethyl Acetyloctahy- dronaphthalenes		68155-66-8	fragrance	
Cis-3-Hexenyl Salicylate		65405-77-8	fragrance	
Benzyl salicylate	Benzyl salicylate	118-58-1	fragrance	EU Fragrance Allergens
1-[(2-tert-butyl)cyclohexyloxy]-2- butanol		139504-68- 0	fragrance	
Dipentene	d-Limonene	5989-27-5	fragrance	EU Fragrance Allergens
Eugenol	Eugenol	97-53-0	fragrance	EU Fragrance Allergens
3-(P-methoxyphenyl)-2-methyl- propionaldehyde		5462-06-6	fragrance	
(E)-anethole		4180-23-8	fragrance	
3,7,7- trimethylbicyclo[4.1.0]hept-3- ene		13466-78-9	fragrance	

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- Toxic or Hazardous Substance List (MA-TURA) none of the ingredients are listed
- Hazardous Substances List (MN-ERTK) none of the ingredients are listed
- Hazardous Substance List (NJ-RTK)

Name of substance	Name acc. to inventory	CAS No	Remarks	Classifications
dipentene	dipentene	138-86-3		F2

#### Legend

F2 Flammable - Second Degree

- Hazardous Substance List (Chapter 323) (PA-RTK) none of the ingredients are listed
- Hazardous Substance List (RI-RTK) none of the ingredients are listed

# 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).

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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		

#### **National inventories**

Country	Inventory	Status
CA	DSL	all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
US	TSCA	all ingredients are listed
AU	AICS	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	not all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed

Legend

Australian Inventory of Chemical Substances Chemical Inventory and Control Regulation List of Existing and New Chemical Substances (CSCL-ENCS) AICS CICR CSCL-ENCS DSL

Domestic Substances List (DSL) EC Substance Inventory (EINECS, ELINCS, NLP) **ECSI** 

**IECSC** Inventory of Existing Chemical Substances Produced or Imported in China

**INSQ** National Inventory of Chemical Substances

ISHA-ENCS

KECI NZIoC

Inventory of Existing and New Chemical Substances (ISHA-ENCS)
Korea Existing Chemicals Inventory
New Zealand Inventory of Chemicals
Philippine Inventory of Chemicals and Chemical Substances (PICCS) **PICCS** 

REACH Reg. **REACH** registered substances

TCSI Taiwan Chemical Substance Inventory

**TSCA Toxic Substance Control Act** 

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#### 15.2 Chemical Safety Assessment

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

## SECTION 16: Other information, including date of preparation or last revision

## Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
3.2		Description of the mixture: change in the listing (table)	yes
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1		Relevant PNECs of components of the mixture: change in the listing (table)	yes
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)	yes
12.1		Aquatic toxicity (acute) of components of the mix- ture: change in the listing (table)	yes
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)	yes

#### **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH® 2019	From ACGIH®, 2019 TLVs® and BEIs® Book. Copyright 2019. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
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

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Abbr.	Descriptions of used abbreviations
DOT	Department of Transportation (USA)
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
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
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
ERG No	Emergency Response Guidebook - Number
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
IMDG	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")
NLP	No-Longer Polymer
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
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

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Abbr.	Descriptions of used abbreviations
STEL	Short-term exposure limit
TLV®	Threshold Limit Values
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

#### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). 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 chapter 2 and 3)

Code	Text
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye 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.

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