



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Refresh Dual Diffuser - New Car and Cool Breeze

Version number: 1.1

Date of compilation: 2018-02-08

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

1.1 Product identifier

Trade name **Refresh Dual Diffuser - New Car and Cool Breeze**
Alternative number(s) 09024

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

Relevant identified uses Consumer Use (Car Air Freshener)

1.3 Details of the supplier of the safety data sheet

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

Telephone: 800-383-7323 (USA / CANADA)
Http://data.energizer.com

1.4 Emergency telephone number

1-800-526-4727 Intl 1-314-985-1511

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Skin sensitisation.	Skin Sens. 1.	H317.
Hazardous to the aquatic environment - chronic hazard.	Aquatic Chronic 2.	H411.

For full text of abbreviations: see SECTION 16.

Additional information

Adverse health effects are not reasonably expected from normal use of product. This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

2.2 Label elements

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

- Signal word Warning

- Pictograms



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- Hazard statements

- H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

- Precautionary statements

- P102 Keep out of reach of children.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling

limonene, citral, allyl 3-cyclohexylpropionate, eugenol

Derogations from labelling requirements

Labelling of packages where the contents do not exceed 125 ml

- Signal word Warning

- Hazard pictogram(s)



- Hazard statements

- H317 May cause an allergic skin reaction.

- Precautionary statements

- P102 Keep out of reach of children.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

- Contains limonene, citral, allyl 3-cyclohexylpropionate, eugenol

2.3 Other hazards

This material is combustible, but will not ignite readily.

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
2-tert-butylcyclohexyl acetate	CAS No 88-41-5 20298-69-5 EC No 201-828-7 243-718-1	10 - < 25	Aquatic Chronic 2 / H411
hexyl acetate	CAS No 142-92-7 EC No 205-572-7	5 - < 10	Flam. Liq. 3 / H226
Acetoxymethylenecyclopentadiene	CAS No 54830-99-8 EC No 259-367-2	5 - < 10	Aquatic Chronic 3 / H412
limonene	CAS No 138-86-3 EC No 205-341-0	1 - < 5	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410
(2-methoxymethylethoxy)propan- ol	CAS No 34590-94-8 EC No 252-104-2	1 - < 5	
phenethyl alcohol	CAS No 60-12-8 EC No 200-456-2	1 - < 5	Acute Tox. 4 / H302 Eye Irrit. 2 / H319
3-methylbutyl butyrate	CAS No 106-27-4 EC No 203-380-8	1 - < 5	Flam. Liq. 3 / H226 Aquatic Chronic 3 / H412
Terpineol, acetate	CAS No 8007-35-0 EC No 232-357-5	1 - < 5	Aquatic Chronic 2 / H411
linalool	CAS No 78-70-6 EC No 201-134-4	1 - < 5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317



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Name of substance	Identifier	Wt%	Classification acc. to GHS
citral	CAS No 5392-40-5 EC No 226-394-6	< 1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Aquatic Chronic 3 / H412
allyl 3-cyclohexylpropionate	CAS No 2705-87-5 EC No 220-292-5	< 1	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Sens. 1B / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410
ethyl isovalerate	CAS No 108-64-5 EC No 203-602-3	< 1	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315
2,6-di-tert-butyl-p-cresol	CAS No 128-37-0 EC No 204-881-4	< 1	Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410
diphenyl ether	CAS No 101-84-8 EC No 202-981-2	< 1	Eye Irrit. 2 / H319 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411
eugenol	CAS No 97-53-0 EC No 202-589-1	< 1	Eye Irrit. 2 / H319 Skin Sens. 1B / H317
dimethylcyclohex-3-ene-1-carbaldehyde	CAS No 27939-60-2 EC No 248-742-6	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Aquatic Chronic 3 / H412
1-(1,1-dimethylpropyl)-4-ethoxy-cyclohexane	CAS No 181258-87-7	< 1	Skin Irrit. 2 / H315 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410
3-p-cumenyl-2-methylpropionaldehyde	CAS No 103-95-7 EC No 203-161-7	< 1	Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Aquatic Chronic 3 / H412
pin-2(3)-ene	CAS No 80-56-8 EC No 201-291-9	< 1	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Asp. Tox. 1 / H304



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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. Call a physician immediately.

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: Firefighting 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

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)



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5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate 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 vapours/dust/spray/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

Advices on how to contain a spill

Covering of drains

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Sawdust, Kieselgur (diatomite), Sand, Universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

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

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



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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

Control of effects

Protect against external exposure, such as

Heat, High temperatures, Frost

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) 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

National limit values

Occupational exposure limit values (Workplace Exposure Limits)						
Country	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]
EU	101-84-8	IOELV	1	7	2	14
EU	34590-94-8	IOELV	50	308		
GB	101-84-8	WEL	1	7.1		
GB	128-37-0	WEL		10		
GB	34590-94-8	WEL	50	308		
GB	80-56-8	WEL		800		

Notation

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

8.2 Exposure controls

Appropriate engineering controls

General ventilation.



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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

Physical state	liquid
Colour	Conforms to Standard
Odour	characteristic
pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	73 °C
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	not determined
Vapour pressure	not determined
Density	not determined
Vapour density	this information is not available
Relative density	information on this property is not available
Solubility(ies)	not determined
Auto-ignition temperature	not determined



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Viscosity	not determined
Explosive properties	none
Oxidising properties	none

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Oxidisers

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 according to GHS (1272/2008/EC, CLP)

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
limonene	138-86-3	dermal	2,000 mg/kg
phenethyl alcohol	60-12-8	oral	1,603 mg/kg
allyl 3-cyclohexylpropionate	2705-87-5	oral	500 mg/kg
allyl 3-cyclohexylpropionate	2705-87-5	dermal	1,600 mg/kg



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Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
allyl 3-cyclohexylpropionate	2705-87-5	inhalation: vapour	11 mg/l/4h

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 sensitisation

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

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species
hexyl acetate	142-92-7	EC50	1,000 mg/l	microorganisms
(2-methoxymethylethoxy)propanol	34590-94-8	LC50	>1,000 mg/l	aquatic invertebrates
phenethyl alcohol	60-12-8	EC50	>100 mg/l	microorganisms
linalool	78-70-6	LC50	27.8 mg/l	fish

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Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species
linalool	78-70-6	EC50	71 mg/l	aquatic invertebrates
allyl 3-cyclohexylpropionate	2705-87-5	EC50	7.7 mg/l	aquatic invertebrates
2,6-di-tert-butyl-p-cresol	128-37-0	EC50	1.7 mg/l	microorganisms
diphenyl ether	101-84-8	LC50	10 mg/l	fish
diphenyl ether	101-84-8	EC50	2.92 mg/l	aquatic invertebrates
eugenol	97-53-0	LC50	13 mg/l	fish
3-p-cumenyl-2-methylpropionaldehyde	103-95-7	EC50	100 mg/l	microorganisms

12.2 Persistence and degradability

Data are not available

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
hexyl acetate	142-92-7	oxygen depletion	66 %	28 d		ECHA
allyl 3-cyclohexylpropionate	2705-87-5	oxygen depletion	60 %	7 d		ECHA
eugenol	97-53-0	oxygen depletion	50 %	7 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
hexyl acetate	142-92-7		3.3 (30 °C)	
(2-methoxymethylethoxy)propanol	34590-94-8		0.0043 (pH value: 7.5, 25 °C)	
phenethyl alcohol	60-12-8		0.8 (pH value: 7, 20 °C)	
linalool	78-70-6		2.9 (pH value: 7, 20 °C)	
allyl 3-cyclohexylpropionate	2705-87-5		4.28 (20 °C)	
2,6-di-tert-butyl-p-cresol	128-37-0	598.4	5.03	
diphenyl ether	101-84-8	196	4.21 (25 °C)	



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Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
eugenol	97-53-0		1.83 (pH value: 5.5, 30 °C)	
3-p-cumenyl-2-methylpropionaldehyde	103-95-7		3.4 (35 °C)	
pin-2(3)-ene	80-56-8		4.487 (25 °C)	

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

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

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

Waste treatment of containers/packages

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) 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
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name (Hazardous ingredients)	2-tert-butylcyclohexyl acetate, limonene
14.3 Transport hazard class(es)	
Class	9 (environmentally hazardous)
14.4 Packing group	III (substance presenting low danger)
14.5 Environmental hazards	hazardous to the aquatic environment



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14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

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

SECTION 15: Regulatory information

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

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). 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)

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

Code.	Text.
H226.	Flammable liquid and vapour.
H302.	Harmful if swallowed.
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.
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.
H412.	Harmful to aquatic life with long lasting effects.



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Disclaimer

This SDS has been compiled and is solely intended for this product. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.