

**KIMCARE® MICROMIST® Air Neutraliser /
Morning Air Scented**

Version	Revision Date:	SDS Number:	Date of last issue: 25.08.2020
1.8	25.10.2021	100000006724	Date of first issue: 15.11.2016

Section 1: Identification

Product name : KIMCARE® MICROMIST® Air Neutraliser / Morning Air Scented

Product code : 6894

Manufacturer or supplier's details

Company : Kimberly-Clark New Zealand

Address : Level 2, 123 Carlton Gore Road, New Market
Auckland
1023
New Zealand

Telephone : +64 0800 447 814

Emergency telephone : +64 0800 764 766
number

Poison Center Name : New Zealand National Poisons Centre

Poison Center Telephone : 0800 764 766

Recommended use of the chemical and restrictions on use

Recommended use : Air Freshener

Section 2: Hazard identification**GHS Classification**

Flammable aerosols : 2.1.2A

Skin irritation : 6.3A

Eye irritation : 6.4A

Skin sensitisation : 6.5B

Aquatic toxicity (Acute or Chronic) : 9.1B

GHS label elements

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Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

:

P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.

Prevention:

P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

Storage:

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Disposal:

Dispose of contents/container in accordance with local regulation.

Other hazards which do not result in classification

None known.

Section 3: Composition/information on ingredients

Substance / Mixture

:

Mixture

Chemical nature

:

Mixture

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Components

Chemical name	CAS-No.	Concentration (% w/w)
Isobutane	75-28-5	>= 30 -< 50
Ethanol	64-17-5	>= 10 -< 20
Hexylene Glycol	107-41-5	>= 1 -< 10
methyl 3-oxo-2-pentylcyclopentaneacetate	24851-98-7	>= 1 -< 2.5
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5	>= 1 -< 2.5
Hydroxycitronellal	107-75-5	>= 1 -< 2.5
benzyl benzoate	120-51-4	>= 1 -< 2.5
citronellol	106-22-9	>= 0.25 -< 1
hexyl salicylate	6259-76-3	>= 0.25 -< 1
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	31906-04-4	>= 0.1 -< 1
allyl 3-cyclohexylpropionate	2705-87-5	>= 0.25 -< 1
benzyl salicylate	118-58-1	>= 0.1 -< 1
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6	>= 0.1 -< 0.25
4-methyl-3-decen-5-ol	81782-77-6	>= 0.1 -< 0.25
geranyl acetate	105-87-3	>= 0.1 -< 0.25

Section 4: First-aid measures

General advice	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
If inhaled	: Move to fresh air in case of accidental inhalation of vapours.
In case of skin contact	: Remove contaminated clothing. If irritation develops, get medical attention. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash contaminated clothing before reuse.
In case of eye contact	: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If easy to do, remove contact lens, if worn.
If swallowed	: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.
Most important symptoms and effects, both acute and delayed	: Causes skin irritation. May cause sensitisation by skin contact. Causes serious eye irritation.

Section 5: Fire-fighting measures

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- Suitable extinguishing media : Foam
Water spray
Sand
Dry powder
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : No special precautions required.
- Hazardous combustion products : No hazardous combustion products are known
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Section 6: Accidental release measures

- Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.
- Environmental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Clean contaminated surface thoroughly.

Section 7: Handling and storage

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area.
Keep away from fire, sparks and heated surfaces.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.
Do not ingest.
For personal protection see section 8.

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Hygiene measures : Do not smoke.
General industrial hygiene practice.

Conditions for safe storage : Keep containers tightly closed in a cool, well-ventilated place.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Further information on storage stability : No decomposition if stored and applied as directed.

Section 8: Exposure controls/personal protection
Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Isobutane	75-28-5	STEL	1,000 ppm	ACGIH
Ethanol	64-17-5	WES-TWA	1,000 ppm 1,880 mg/m ³	NZ OEL
Further information: See Appendix 6 for exposure limits set by other organisations				
		STEL	1,000 ppm	ACGIH
Hexylene Glycol	107-41-5	WES-Ceiling	25 ppm 121 mg/m ³	NZ OEL
		C	25 ppm	ACGIH

Engineering measures : none

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Remarks : For prolonged or repeated contact use protective gloves.

Eye protection : Not required under normal use.

Skin and body protection : Not required under normal use.

Protective measures : When using do not eat, drink or smoke.

Section 9: Physical and chemical properties

Appearance : liquid

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Colour : colourless, light yellow

Odour : characteristic

Odour Threshold : No data available

pH : No data available

: No data available

: No data available

Flash point : No data available

Evaporation rate : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : 4.5 - 5.5 bar

Relative vapour density : No data available

Relative density : 0.7

Density : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available

Section 10: Stability and reactivity

Reactivity : Stable under recommended storage conditions.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : None known.

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Conditions to avoid	:	Extremes of temperature and direct sunlight. Heat, flames and sparks.
Incompatible materials	:	Incompatible with strong acids and bases. Oxidizing agents
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

Section 11: Toxicological information

Exposure routes	:	Skin contact Inhalation
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Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
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Acute inhalation toxicity	:	Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
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Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
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Components:**Isobutane:**

Acute inhalation toxicity	:	LC50 (Rat): 658 mg/l Exposure time: 4 h
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Ethanol:

Acute oral toxicity	:	LD50 (Rat, male and female): 10,470 mg/kg Method: OECD Test Guideline 401 GLP: no
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LD50 Oral (Rat): 7,060 mg/kg

Acute inhalation toxicity	:	LC50 (Rat, male and female): 124.7 mg/l Method: OECD Test Guideline 403 GLP: no
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Hexylene Glycol:

Acute oral toxicity	:	LD50 Oral (Rat): 3,700 mg/kg
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Acute inhalation toxicity : LC50 (Rat): > 310 mg/m3
Exposure time: 1 h

Acute dermal toxicity : LD50 Dermal (Rabbit): 12,300 mg/kg

methyl 3-oxo-2-pentylcyclopentaneacetate:

Acute oral toxicity : LD50 Oral (Rat): > 5 g/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 4.93 mg/l
Method: OECD Test Guideline 403
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg
Method: See User Free Text
GLP: no

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran:

Acute oral toxicity : LD50 Oral (Rat): > 3,250 mg/kg
Remarks: 65% HHCB in either diethyl phthalate or isopropyl myristate

Acute dermal toxicity : LD50 Dermal (Rabbit): > 3,250 mg/kg
Remarks: 65% HHCB in either diethyl phthalate or isopropyl myristate
no deaths occurred

Hydroxycitronellal:

Acute oral toxicity : LD50 Oral (Rat): > 5 g/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg

benzyl benzoate:

Acute oral toxicity : LD50 Oral (Rat): 500 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 4,000 mg/kg

hexyl salicylate:

Acute oral toxicity : LD50 Oral (Rat): > 5 g/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg
Method: Acute toxicity estimate
GLP: No information available.

4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde:

Acute oral toxicity :

LD50 Oral (Rat): CUST-LOLI.009926

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benzyl salicylate:

Acute oral toxicity : LD50 Oral (Rat): 2,227 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg
Remarks: no deaths occurred**4-methyl-3-decen-5-ol:**

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

geranyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 6,330 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,460 mg/kg
Method: No information available.
GLP: no**Skin corrosion/irritation**

Causes skin irritation.

Product:

Remarks : No data available

Components:**Ethanol:**Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes**Hexylene Glycol:**Species : Rabbit
Result : Skin irritation**methyl 3-oxo-2-pentylcyclopentaneacetate:**Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes**1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran:**Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes**Hydroxycitronellal:**

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Species : Rabbit
Result : Mild skin irritation

benzyl benzoate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes

hexyl salicylate:

Species : Rabbit
Method : No information available.
Result : irritating
GLP : yes

benzyl salicylate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes

2,4-dimethylcyclohex-3-ene-1-carbaldehyde:

Assessment : Irritating to skin.

4-methyl-3-decen-5-ol:

Species : Rabbit
Result : No skin irritation

geranyl acetate:

Species : Rabbit
Exposure time : 24 h
Method : Draize Test
Result : Severe skin irritation
GLP : no

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks : May irritate eyes.

Components:**Ethanol:**

Species : Rabbit
Result : Irritation to eyes, reversing within 21 days
Method : OECD Test Guideline 405

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GLP : no

Hexylene Glycol:

Species : Rabbit
Result : Mild eye irritation

methyl 3-oxo-2-pentylcyclopentaneacetate:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405
GLP : yes

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405
GLP : yes

Hydroxycitronellal:

Result : Mild eye irritation

benzyl benzoate:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405
GLP : yes

hexyl salicylate:

Species : Rabbit
Result : No eye irritation
Method : Directive 67/548/EEC, Annex V, B.5.
GLP : yes

benzyl salicylate:

Result : Eye irritation

2,4-dimethylcyclohex-3-ene-1-carbaldehyde:

Assessment : Irritating to eyes.

4-methyl-3-decen-5-ol:

Species : Rabbit
Result : No eye irritation

geranyl acetate:

Species : Rabbit

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Result	:	No eye irritation
Method	:	OECD Test Guideline 405
GLP	:	yes

Respiratory or skin sensitisation**Skin sensitisation**

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks	:	May cause sensitisation of susceptible persons by skin contact.
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Components:**Ethanol:**

Species	:	Mouse
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 429
Result	:	Did not cause sensitisation on laboratory animals.
GLP	:	no

Hexylene Glycol:

Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Result	:	Did not cause sensitisation on laboratory animals.

methyl 3-oxo-2-pentylcyclopentaneacetate:

Test Type	:	Maximisation Test
Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 406
Result	:	Did not cause sensitisation on laboratory animals.
GLP	:	yes

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran:

Test Type	:	Maximisation Test
Species	:	Guinea pig
Method	:	No information available.
Result	:	Did not cause sensitisation on laboratory animals.
GLP	:	no

Hydroxycitronellal:

Species	:	Guinea pig
Result	:	The product is a skin sensitiser, sub-category 1B.

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benzyl benzoate:

Species	: Mouse
Method	: OECD Test Guideline 429
Result	: Did not cause sensitisation on laboratory animals.
GLP	: yes

citronellol:

Assessment	: The product is a skin sensitiser, sub-category 1B.
Result	: The product is a skin sensitiser, sub-category 1B.

hexyl salicylate:

Species	: Mouse
Method	: OECD Test Guideline 429
Result	: Causes sensitisation.
GLP	: yes

benzyl salicylate:

Species	: Mouse
Method	: OECD Test Guideline 429
Result	: The product is a skin sensitiser, sub-category 1B.
GLP	: yes

2,4-dimethylcyclohex-3-ene-1-carbaldehyde:

Assessment	: The product is a skin sensitiser, sub-category 1B.
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4-methyl-3-decen-5-ol:

Species	: Guinea pig
Result	: Did not cause sensitisation on laboratory animals.

geranyl acetate:

Species	: Mouse
Method	: OECD Test Guideline 429
Result	: Did not cause sensitisation on laboratory animals.
GLP	: yes

Chronic toxicity**Germ cell mutagenicity**

Not classified based on available information.

Product:

Germ cell mutagenicity - Assessment	: No information available.
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Components:**Isobutane:**

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Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Not classified based on available information.

Product:

Carcinogenicity - Assessment : No information available.

Components:**Isobutane:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Reproductive toxicity

Not classified based on available information.

Product:

Reproductive toxicity - Assessment : No information available.

STOT - single exposure

Not classified based on available information.

Product:

Remarks : No data available

STOT - repeated exposure

Not classified based on available information.

Product:

Remarks : No data available

Aspiration toxicity

Not classified based on available information.

Product:

No data available

Section 12: Ecological information**Ecotoxicity****Components:****Isobutane:**

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Toxicity to fish : LC50: 27.98 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50: 14.22 mg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EC50: 7.71 mg/l
plants Exposure time: 96 h

Ethanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Test Type: static test

LC50 (Pimephales promelas (fathead minnow)): 13,400 -
15,100 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other : EC50 (Ceriodaphnia dubia (water flea)): 5,012 mg/l
aquatic invertebrates Exposure time: 48 h
Test Type: static test

LC50 (Daphnia magna (Water flea)): 9,268 - 14,221 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): 275
plants mg/l
Exposure time: 72 h
Test Type: static test

Hexylene Glycol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 10,500 -
11,000 mg/l
Exposure time: 96 h
Test Type: flow-through test

LC50 (Lepomis macrochirus (Bluegill sunfish)): 10,000 mg/l
Exposure time: 96 h
Test Type: static test

LC50 (Pimephales promelas (fathead minnow)): 8,690 mg/l
Exposure time: 96 h
Test Type: flow-through test

LC50 (Pimephales promelas (fathead minnow)): 10,700 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 2,700 - 3,700 mg/l
aquatic invertebrates Exposure time: 48 h

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Toxicity to algae/aquatic plants : EC50: > 429 mg/l
Exposure time: 72 h

methyl 3-oxo-2-pentylcyclopentaneacetate:

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): 19 mg/l
Exposure time: 96 h
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 8.25 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 18.2 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: No information available.

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran:

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.723 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Ecotoxicology Assessment

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Hydroxycitronellal:

Toxicity to fish : LC50: 31.6 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50: 410 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50: 123.3 mg/l
Exposure time: 72 h

benzyl benzoate:

Toxicity to fish : LC50 (Danio rerio): 2.32 mg/l
Exposure time: 96 h
Test Type: semi-static test

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 3.09 mg/l

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aquatic invertebrates

Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic
plants

: EC50 (*Pseudokirchneriella subcapitata* (green algae)): 0.475 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Toxicity to daphnia and other
aquatic invertebrates
(Chronic toxicity)

: NOEC: 0.258 mg/l
Exposure time: 21 d

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

hexyl salicylate:

Toxicity to fish

: LC50 (*Danio rerio* (zebra fish)): 1.34 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: Directive 67/548/EEC, Annex V, C.1.
GLP: yes

Toxicity to daphnia and other
aquatic invertebrates

: EC50 (*Daphnia magna* (Water flea)): 0.357 mg/l
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic
plants

: EC50 (*Desmodesmus subspicatus* (green algae)): 0.61 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Toxicity to daphnia and other
aquatic invertebrates
(Chronic toxicity)

: NOEC: 0.14 mg/l
Exposure time: 48 h

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

benzyl salicylate:

Toxicity to fish

: LC50 (*Danio rerio*): 1.03 mg/l
Exposure time: 96 h

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Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.16 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 1.29 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

2,4-dimethylcyclohex-3-ene-1-carbaldehyde:**Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

4-methyl-3-decen-5-ol:

Toxicity to fish : LC50: 3 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50: 0.4 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50: 1.4 mg/l
Exposure time: 72 h

geranyl acetate:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 68.12 mg/l
Exposure time: 96 h
Test Type: static test
Method: DIN 38412
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 14.1 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 3.72 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

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Persistence and degradability**Components:****Isobutane:**

Biodegradability : Result: Readily biodegradable.

Ethanol:Biodegradability : aerobic
Inoculum: activated sludge
Biodegradation: 97 %
Exposure time: 28 d
Remarks: Readily biodegradable, according to appropriate OECD test.**methyl 3-oxo-2-pentylcyclopentaneacetate:**

Biodegradability : Result: Readily biodegradable.

1,3,4,6,7,8-hexahydro-4,6,7,8,8-hexamethylindeno[5,6-c]pyran:

Biodegradability : Result: Not biodegradable

Hydroxycitronellal:

Biodegradability : Result: Readily biodegradable.

citronellol:

Biodegradability : Result: Readily biodegradable.

4-methyl-3-decen-5-ol:

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential**Components:****Isobutane:**

Partition coefficient: n-octanol/water : log Pow: 1.09

Ethanol:Bioaccumulation : Bioconcentration factor (BCF): 0.66
Remarks: No bioaccumulation is to be expected (log Pow <= 4).**Hexylene Glycol:**

Partition coefficient: n- : log Pow: < -0.14

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octanol/water

methyl 3-oxo-2-pentylcyclopentaneacetate:

Partition coefficient: n- : log Pow: 2.93
octanol/water

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran:

Partition coefficient: n- : log Pow: 5.3
octanol/water

Hydroxycitronellal:

Partition coefficient: n- : log Pow: 2.11
octanol/water

benzyl benzoate:

Partition coefficient: n- : log Pow: 3.97
octanol/water

citronellol:

Partition coefficient: n- : log Pow: 3.55 (25 °C)
octanol/water

hexyl salicylate:

Partition coefficient: n- : log Pow: 5.5
octanol/water

allyl 3-cyclohexylpropionate:

Partition coefficient: n- : log Pow: 4.28
octanol/water

benzyl salicylate:

Partition coefficient: n- : log Pow: 4
octanol/water

4-methyl-3-decen-5-ol:

Partition coefficient: n- : log Pow: 3.9
octanol/water

geranyl acetate:

Partition coefficient: n- : log Pow: 4.48
octanol/water

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Mobility in soil**Components:****Ethanol:**

Stability in soil : Remarks: Not expected to adsorb on soil.

Other adverse effects**Components:****Ethanol:**

Results of PBT and vPvB assessment : 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).

Section 13: Disposal considerations**Disposal methods**

Waste from residues : Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Dispose of as unused product.

Section 14: Transport information**International Regulations****UNRTDG**

UN number : AEROSOLS

Proper shipping name : AEROSOLS

Class : 2.1

Packing group : Not assigned by regulation

Labels : 2.1

IATA-DGR

UN/ID No. : UN 1950

Proper shipping name : Aerosols, flammable

Class : 2.1

Packing group : Not assigned by regulation

IMDG-Code

UN number : UN 1950

Proper shipping name : AEROSOLS

Class : 2.1

Packing group : Not assigned by regulation

EmS Code : F-D, S-U

Marine pollutant : no

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations**NZS 5433**

UN number	: UN 1950
Proper shipping name	: AEROSOLS
Class	: 2.1
Packing group	: Not assigned by regulation
Labels	: 2.1

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****HSNO Approval Number**

HSR002515
Aerosols (Flammable) Group Standard 2017

The components of this product are reported in the following inventories:

TCSI	: Not in compliance with the inventory
AIIC	: Not in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
NZIoC	: Not in compliance with the inventory

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Section 16: Other information

Date format : dd.mm.yyyy

Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NZ OEL	: New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
ACGIH / STEL	: Short-term exposure limit
ACGIH / C	: Ceiling limit
NZ OEL / WES-TWA	: Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-Ceiling	: Workplace Exposure Standard - Ceiling

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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 guidance 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.

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