



Fresh 24 clip on - Ocean drive

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

Issue date:04/03/2020

Revision date: 04/03/2022

Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Trade name : Fresh 24 clip on - Ocean drive
Type of product : Vehicle interior air freshener
Product code : SH1135
Product group : Trade product

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

No additional information available

1.3. Supplier's details

Manufacturer

Shield Chemicals (Pty) Ltd
9 London Rd
Apex
P.O. Box 1939
1501 Benoni - South Africa
T (011) 421 7111
info@shieldchem.co.za

1.4. Emergency telephone number

Emergency number : (011) 421 7111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Flammable liquids Not classified
Skin corrosion/irritation Not classified
Serious eye damage/eye irritation Not classified
Skin sensitisation, Category 1 H317
Specific target organ toxicity (single exposure) Not classified
Hazardous to the aquatic environment - Acute Hazard Not classified
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412
Full text of H statements : see section 16

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS-ZA) :



GHS07

Signal word (GHS-ZA) : Warning
Hazardous ingredients : Isoparaffin; 2-tert-butylcyclohexanol acetate; (+)-limonene; Ethyl 2-methyl-1,3-dioxolane-2-acetate; 3a,4,5,6,7,7a-hexahydro-4,7-methaioinden-6-yl acetate; a,a-dimethylphenethyl acetate; linalool; Allyl heptanoate
Hazard statements (GHS-ZA) : H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (GHS-ZA) : P261 - Avoid breathing vapours.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear eye protection, protective clothing, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

Adverse physicochemical, human health and environmental effects : May cause an allergic skin reaction, Harmful to aquatic life with long lasting effects.

Fresh 24 clip on - Ocean drive

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to the United Nations GHS |
|--|---------------------|-------------|--|
| Isoparaffin | | 35.0 - 70.0 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| 2-tert-butylcyclohexanol acetate | (CAS-No.) 88-41-5 | 2.0 - 8.0 | Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) |
| (+)-limonene | (CAS-No.) 5989-27-5 | 2.0 - 8.0 | Flam. Liq. 3, H226 Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Ethyl 2-methyl-1,3,dioxolane-2-acetate | (CAS-No.) 6413-10-1 | 2.0 - 8.0 | Flam. Liq. 4, H227 STOT RE Not classified Aquatic Acute Not classified |
| 3a,4,5,6,7,7a-hexahydro-4,7-methaoinden-6-yl acetate | (CAS-No.) 5413-60-5 | 0.0 - 5.0 | Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 STOT RE Not classified Aquatic Acute 3, H402 |
| a,a-dimethylphenethyl acetate | | 0.0 - 5.0 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute Not classified Aquatic Chronic 3, H412 |
| linalool | (CAS-No.) 78-70-6 | 0.0 - 5.0 | Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) Skin Sens. 1B, H317 Aquatic Acute 3, H402 |
| Allyl heptanoate | (CAS-No.) 142-19-8 | 0.0 - 5.0 | Flam. Liq. 4, H227 Acute Tox. 3 (Dermal), H311 Aquatic Acute 1, H400 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse eyes with water as a precaution.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after skin contact : May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing vapours.

Fresh 24 clip on - Ocean drive

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing vapours. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Liquid.

Colour : No data available

Odour : No data available

Odour threshold : No data available

pH : No data available

pH solution : No data available

Relative evaporation rate (butylacetate=1) : No data available

Relative evaporation rate (ether=1) : No data available

Melting point : Not applicable

Freezing point : No data available

Boiling point : No data available

Flash point : $\approx 73.2\text{ }^{\circ}\text{C}$

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Not applicable

Vapour pressure : No data available

Vapour pressure at 50 °C : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Relative density of saturated gas/air mixture : No data available

Density : No data available

Fresh 24 clip on - Ocean drive

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

| | |
|-----------------------------|-----------------------|
| Relative gas density | : No data available |
| Solubility | : Insoluble in water. |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |
| Lower explosive limit (LEL) | : No data available |
| Upper explosive limit (UEL) | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| | |
|--|---|
| 2-tert-butylcyclohexanol acetate (88-41-5) | |
| LD50 oral rat | 4600 mg/kg (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 5000 mg/kg (Equivalent or similar to OECD 402, Rabbit, Experimental value, Dermal) |
| (+)-limonene (5989-27-5) | |
| LD50 oral rat | > 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral) |
| LD50 dermal rabbit | > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Read-across, Dermal) |
| 3a,4,5,6,7,7a-hexahydro-4,7-methainden-6-yl acetate (5413-60-5) | |
| LD50 oral rat | 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| Allyl heptanoate (142-19-8) | |
| LD50 dermal rabbit | 810 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 440 - 1180 |
| linalool (78-70-6) | |
| LD50 oral rat | 2790 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | 5610 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 7 day(s)) |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Not classified. |
| Serious eye damage/irritation | : Not classified. |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |

Fresh 24 clip on - Ocean drive

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

| | |
|------------------------|-------------------|
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified. |
| STOT-repeated exposure | : Not classified |

| | |
|---|--|
| Ethyl 2-methyl-1,3,dioxolane-2-acetate (6413-10-1) | |
| NOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

| | |
|--|--|
| 3a,4,5,6,7,7a-hexahydro-4,7-methaioinden-6-yl acetate (5413-60-5) | |
| LOAEL (oral, rat, 90 days) | 1182.033 mg/kg bodyweight Animal: rat, Guideline: other: |

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|--|
| Ecology - general | : Harmful to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified. |
| Hazardous to the aquatic environment, long-term (chronic) | : Harmful to aquatic life with long lasting effects. |

| | |
|---|---|
| 2-tert-butylcyclohexanol acetate (88-41-5) | |
| BCF fish 1 | 384.6 l/kg (BCFBAF v3.01, Calculated value, Fresh weight) |
| Log Pow | 4.42 (Estimated value, KOWWIN) |
| Log Koc | 2.644 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |

| | |
|---------------------------------|--|
| (+)-limonene (5989-27-5) | |
| LC50 fish 1 | 720 µg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value) |
| EC50 Daphnia 1 | 0.307 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, GLP) |
| ErC50 (algae) | 0.32 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |
| BCF fish 1 | 864.8 l/kg (BCFBAF v3.01, Pisces, QSAR, Fresh weight) |
| Log Pow | 4.38 (Experimental value, Equivalent or similar to OECD 117, 37 °C) |

| | |
|---|--|
| Ethyl 2-methyl-1,3,dioxolane-2-acetate (6413-10-1) | |
| LC50 fish 1 | > 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 72h algae (1) | > 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

| | |
|--|---|
| 3a,4,5,6,7,7a-hexahydro-4,7-methaioinden-6-yl acetate (5413-60-5) | |
| LC50 fish 1 | 18.04851 mg/l Test organisms (species): Carassius auratus |
| LC50 fish 2 | 16.62311 mg/l Test organisms (species): Lepomis macrochirus |
| EC50 Daphnia 1 | 53.80956 mg/l Test organisms (species): Daphnia magna |
| EC50 72h algae (1) | 13.07479 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

| | |
|--------------------------------------|--------------|
| a,a-dimethylphenethyl acetate | |
| LC50 fish 1 | ≈ 8.901 mg/l |

| | |
|------------------------------------|---|
| Allyl heptanoate (142-19-8) | |
| LC50 fish 1 | 0.117 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| LC50 fish 2 | 0.13 mg/l Test organisms (species): Pimephales promelas |
| EC50 Daphnia 1 | 0.89 mg/l Test organisms (species): Daphnia magna |

| | |
|---------------------------|---|
| linalool (78-70-6) | |
| LC50 fish 1 | 27.8 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP) |
| EC50 Daphnia 1 | 59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| ErC50 (algae) | 156.7 mg/l (DIN 38412-9, 96 h, Desmodemus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration) |
| Log Pow | 2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C) |

12.2. Persistence and degradability

| | |
|---------------------------------------|-------------------------------------|
| Fresh 24 clip on - Ocean drive | |
| Persistence and degradability | No additional information available |

Fresh 24 clip on - Ocean drive

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

| | |
|---|-------------------------------------|
| 2-tert-butylcyclohexanol acetate (88-41-5) | |
| Persistence and degradability | Not readily biodegradable in water. |

| | |
|---------------------------------|------------------------------------|
| (+)-limonene (5989-27-5) | |
| Persistence and degradability | Readily biodegradable in water. |
| ThOD | 3.29 g O ₂ /g substance |

| | |
|-------------------------------|---------------------------------|
| linalool (78-70-6) | |
| Persistence and degradability | Readily biodegradable in water. |

12.3. Bioaccumulative potential

| | |
|---------------------------------------|-------------------------------------|
| Fresh 24 clip on - Ocean drive | |
| Bioaccumulative potential | No additional information available |

| | |
|---|--|
| 2-tert-butylcyclohexanol acetate (88-41-5) | |
| BCF fish 1 | See section 12.1 on ecotoxicology |
| Log Pow | See section 12.1 on ecotoxicology |
| Log Koc | See section 12.1 on ecotoxicology |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

| | |
|---------------------------------|---|
| (+)-limonene (5989-27-5) | |
| BCF fish 1 | See section 12.1 on ecotoxicology |
| Log Pow | See section 12.1 on ecotoxicology |
| Bioaccumulative potential | Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$). |

| | |
|---------------------------|--|
| linalool (78-70-6) | |
| Log Pow | See section 12.1 on ecotoxicology |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

12.4. Mobility in soil

| | |
|---------------------------------------|-------------------------------------|
| Fresh 24 clip on - Ocean drive | |
| Mobility in soil | No additional information available |

| | |
|---|---------------------------------------|
| 2-tert-butylcyclohexanol acetate (88-41-5) | |
| Log Pow | See section 12.1 on ecotoxicology |
| Log Koc | See section 12.1 on ecotoxicology |
| Ecology - soil | Low potential for adsorption in soil. |

| | |
|---------------------------------|-------------------------------------|
| (+)-limonene (5989-27-5) | |
| Log Pow | See section 12.1 on ecotoxicology |
| Ecology - soil | Low potential for mobility in soil. |

| | |
|---------------------------|--|
| linalool (78-70-6) | |
| Surface tension | 8.3 mN/m (20 °C, ISO 9101: Surface active agents - Determination of interfacial tension) |
| Log Pow | See section 12.1 on ecotoxicology |
| Ecology - soil | No (test)data on mobility of the substance available. |

12.5. Other adverse effects

Ozone : Not classified
 Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

| SANS | IMDG | IATA |
|---|----------------|----------------|
| 14.1. UN number | | |
| Not regulated for transport | | |
| 14.2. Proper Shipping Name | | |
| Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | |
| Not applicable | Not applicable | Not applicable |
| Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | |
| Not applicable | Not applicable | Not applicable |

Fresh 24 clip on - Ocean drive

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

| SANS | IMDG | IATA |
|--|---|------------------------------------|
| | | |
| 14.5. Environmental hazards | | |
| Dangerous for the environment : No | Dangerous for the environment : No : | Dangerous for the environment : No |
| No supplementary information available | | |

14.6. Special precautions for user

- SANS

No data available

- IMDG

No data available

- IATA

No data available

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 national regulations specific for the product

No additional information available

SECTION 16: Other information

Issue date : 04/03/2020

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Full text of H-statements:

| | |
|------|---|
| H226 | Flammable liquid and vapour. |
| H227 | Combustible liquid |
| H303 | May be harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H313 | May be harmful in contact with skin |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H401 | Toxic to aquatic life |
| H402 | Harmful 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. |

SDS South Africa

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.