



Ice sensations - Glacier

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

Date of issue: 28/02/2020

Revision date: 28/02/2022

Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Trade name : Ice sensations - Glacier
Type of product : Vehicle interior air freshener
Product code : SH562
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, Category 4 | H227 |
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 2A | H319 |
| Skin sensitisation, Category 1 | H317 |
| Carcinogenicity, Category 2 | H351 |
| Hazardous to the aquatic environment - Acute Hazard | Not classified |
| Hazardous to the aquatic environment — Chronic Hazard, Category 2 | H411 |

Full text of H statements : see section 16

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS-ZA) :



GHS07

GHS08

GHS09

Signal word (GHS-ZA) : Warning

Hazardous ingredients : linalool; 2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethyl acetate; (Z)-citral; 4'-tert-butyl-2',6'-dimethyl-3',5'-dinitroacetophenone

Hazard statements (GHS-ZA) : H227 - Combustible liquid
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H351 - Suspected of causing cancer.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (GHS-ZA) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 - Avoid breathing vapours.
P264 - Wash hands, forearms and face thoroughly after handling.
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.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

Ice sensations - Glacier

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice.
P321 - Specific treatment (see supplemental first aid instruction on this label)
P332+P313 - If skin irritation occurs: Get medical advice.
P333+P313 - If skin irritation or rash occurs: Get medical advice.
P337+P313 - If eye irritation persists: Get medical advice.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use carbon dioxide (CO₂), extinguishing powder, foam to extinguish.
P391 - Collect spillage.
P403 - Store in a well-ventilated place.
P405 - Store locked up.
P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Suspected of causing cancer,Causes skin irritation,May cause an allergic skin reaction,Causes serious eye irritation,Toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to the United Nations GHS |
|---|----------------------|------------|---|
| linalool | (CAS-No.) 78-70-6 | 5.0 - 10.0 | Flam. Liq. 4, H227 Acute Tox. 5 (Oral), H303 Acute Tox. Not classified (Dermal) Skin Sens. 1B, H317 Aquatic Acute 3, H402 |
| 2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethyl acetate | | 5.0 - 10.0 | Eye Irrit. 2A, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 |
| linalyl acetate | (CAS-No.) 115-95-7 | 5.0 - 10.0 | Flam. Liq. 4, H227 Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Aquatic Acute 3, H402 |
| 2,6-dimethyl-7-octen-2-ol | (CAS-No.) 18479-58-8 | 1.0 - 5.0 | Flam. Liq. 4, H227 |
| 3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate | | 1.0 - 5.0 | Aquatic Chronic 3, H412 |
| coumarin | (CAS-No.) 91-64-5 | 1.0 - 5.0 | Acute Tox. 3 (Oral), H301 Aquatic Acute 2, H401 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.
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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
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 : Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact : Eye irritation.

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

Fire hazard : Combustible liquid.

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.

Ice sensations - Glacier

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

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. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing vapours.

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

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing vapours.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 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. Store locked up.

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 : characteristic.

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

Ice sensations - Glacier

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

| | |
|---|-----------------------------------|
| Flash point | : ≈ 83 °C closed cup |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : ≈ 0.16 hPa |
| 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 | : 0.963 - 0.973 g/cm ³ |
| 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

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

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

| | |
|-----------------------------------|--|
| 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)) |
| linalyl acetate (115-95-7) | |
| LD50 oral rat | > 9000 mg/kg bodyweight (BASF test, Rat, Male / female, Experimental value, Oral, 7 day(s)) |
| LD50 dermal rabbit | > 5000 mg/kg bodyweight (Rabbit, Experimental value, Dermal, 14 day(s)) |
| coumarin (91-64-5) | |
| LD50 oral rat | 293 mg/kg bodyweight (Rat, Male / female, Experimental value, Oral) |

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Ice sensations - Glacier

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

| | |
|------------------------|--------------------------------|
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Suspected of causing cancer. |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|--|
| Ecology - general | : Toxic 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) | : Toxic to aquatic life with long lasting effects. |

| 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, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration) |
| Log Pow | 2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C) |

| linalyl acetate (115-95-7) | |
|----------------------------|--|
| LC50 fish 1 | 11 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio, Flow-through 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, Locomotor effect) |
| ErC50 (algae) | 156.7 mg/l (DIN 38412-9, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration) |
| BCF fish 1 | 173.9 l/kg (BCFBFAF v3.00, Calculated value, Fresh weight) |
| Log Pow | 3.9 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C) |
| Log Koc | 2.71 (log Koc, PCKOCWIN v1.66, Calculated value) |

| 2,6-dimethyl-7-octen-2-ol (18479-58-8) | |
|--|------------------------|
| Log Pow | 3.47 (Estimated value) |

| coumarin (91-64-5) | |
|--------------------|---|
| LC50 fish 1 | 2.94 mg/l (96 h, Pisces, QSAR) |
| EC50 Daphnia 1 | 24.3 - 36.9 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| Log Pow | 1.39 (QSAR, 25 °C) |
| Log Koc | 1.63 (log Koc, QSAR) |

12.2. Persistence and degradability

| Ice sensations - Glacier | |
|-------------------------------|-------------------------------------|
| Persistence and degradability | No additional information available |

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

| linalyl acetate (115-95-7) | |
|-------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

| 2,6-dimethyl-7-octen-2-ol (18479-58-8) | |
|--|---|
| Persistence and degradability | Biodegradability in water: no data available. |

| coumarin (91-64-5) | |
|-------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

12.3. Bioaccumulative potential

| Ice sensations - Glacier | |
|---------------------------|-------------------------------------|
| Bioaccumulative potential | No additional information available |

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

Ice sensations - Glacier

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

| | |
|-----------------------------------|--|
| linalyl acetate (115-95-7) | |
| 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). |

| | |
|---|--|
| 2,6-dimethyl-7-octen-2-ol (18479-58-8) | |
| Log Pow | See section 12.1 on ecotoxicology |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| | |
|---------------------------|--|
| coumarin (91-64-5) | |
| Log Pow | See section 12.1 on ecotoxicology |
| Log Koc | See section 12.1 on ecotoxicology |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

12.4. Mobility in soil

| | |
|---------------------------------|-------------------------------------|
| Ice sensations - Glacier | |
| Mobility in soil | No additional information available |

| | |
|---------------------------|--|
| 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. |

| | |
|-----------------------------------|---------------------------------------|
| linalyl acetate (115-95-7) | |
| Log Pow | See section 12.1 on ecotoxicology |
| Log Koc | See section 12.1 on ecotoxicology |
| Ecology - soil | Low potential for adsorption in soil. |

| | |
|---|---|
| 2,6-dimethyl-7-octen-2-ol (18479-58-8) | |
| Log Pow | See section 12.1 on ecotoxicology |
| Ecology - soil | No (test)data on mobility of the substance available. |

| | |
|---------------------------|-----------------------------------|
| coumarin (91-64-5) | |
| Log Pow | See section 12.1 on ecotoxicology |
| Log Koc | See section 12.1 on ecotoxicology |
| Ecology - soil | Highly mobile in soil. |

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 | | |
| 3082 | 3082 | 3082 |
| 14.2. Proper Shipping Name | | |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | Environmentally hazardous substance, liquid, n.o.s. |
| 14.3. Transport hazard class(es) | | |
| 9 | 9 | 9 |
|  |  |  Not applicable |
| 14.4. Packing group | | |
| III | III | III |
| 14.5. Environmental hazards | | |
| Dangerous for the environment : Yes | Dangerous for the environment : No | Dangerous for the environment : No |

Ice sensations - Glacier

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

| SANS | IMDG | IATA |
|--|------|------|
| | : | |
| No supplementary information available | | |

14.6. Special precautions for user

- SANS

| | |
|---|----------------------|
| Special provisions (SANS) | : 179, 274, 331, 335 |
| Limited quantities (SANS) | : 5 L |
| Limited quantities (SANS) | : 5 L |
| Packagings, large packagings and IBCs | : P001, IBC03, LP01 |
| Packing instructions (SANS) | |
| Packagings, large packagings and IBCs Special packing instructions (SANS) | : PP1 |
| Portable tank and bulk containers instructions (SANS) | : T4 |
| Portable tank and bulk container special provisions (SANS) | : TP1, TP29 |

- IMDG

| | |
|-----------------------------------|---|
| Special provisions (IMDG) | : 274, 335, 969 |
| Limited quantities (IMDG) | : 5 L |
| Excepted quantities (IMDG) | : E1 |
| Packing instructions (IMDG) | : LP01, P001 |
| Special packing provisions (IMDG) | : PP1 |
| IBC packing instructions (IMDG) | : IBC03 |
| Tank instructions (IMDG) | : T4 |
| Tank special provisions (IMDG) | : TP2, TP29 |
| EmS-No. (Fire) | : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE |
| EmS-No. (Spillage) | : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS |
| Stowage category (IMDG) | : A |

- IATA

| | |
|--|-------------------|
| PCA Excepted quantities (IATA) | : E1 |
| PCA Limited quantities (IATA) | : Y964 |
| PCA limited quantity max net quantity (IATA) | : 30kgG |
| PCA packing instructions (IATA) | : 964 |
| PCA max net quantity (IATA) | : 450L |
| CAO packing instructions (IATA) | : 964 |
| CAO max net quantity (IATA) | : 450L |
| Special provisions (IATA) | : A97, A158, A197 |
| ERG code (IATA) | : 9L |

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

| | |
|---------------|--------------|
| Date of issue | : 28/02/2020 |
| Revision date | : 28/02/2022 |

Full text of H-statements:

| | |
|------|--------------------------------------|
| H227 | Combustible liquid |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H303 | May be harmful if swallowed |
| 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. |

Ice sensations - Glacier

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

| | |
|------|---|
| H351 | Suspected of causing cancer. |
| 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.