



Heart air freshener - Fireworx

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

Issue date: 11/06/2020

Revision date: 13/06/2022

Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Trade name : Heart air freshener - Fireworx
Type of product : Air freshener
Product code : SH1098
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

| | |
|---|------|
| Acute toxicity (oral), Category 5 | H303 |
| Skin corrosion/irritation, Category 3 | H316 |
| Skin sensitisation, Category 1 | H317 |
| Hazardous to the aquatic environment — Acute Hazard, Category 2 | H401 |
| 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

GHS09

Signal word (GHS-ZA) : Warning

Hazardous ingredients : Dipropylene glycol methyl ether; 2,6-dimethyl-7-octen-2-ol; 2-(4-tert-butylbenzyl)propionaldehyde; Oxacyclohexane mixture

Hazard statements (GHS-ZA) : H303 - May be harmful if swallowed
H316 - Causes mild skin irritation
H317 - May cause an allergic skin reaction.
H411 - Toxic 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.
P312 - Call a doctor if you feel unwell.
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.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Harmful if swallowed, Causes mild skin irritation, May cause an allergic skin reaction, Toxic to aquatic life, Toxic to aquatic life with long lasting effects.

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to the United Nations GHS |
|---------------------------------------|----------------------|-------------|--|
| Dipropylene glycol methyl ether | (CAS-No.) 34590-94-8 | 60.0 - 70.0 | Flam. Liq. 4, H227 Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) STOT RE Not classified Aquatic Acute Not classified |
| 2,6-dimethyl-7-octen-2-ol | (CAS-No.) 18479-58-8 | 5.0 - 10.0 | Flam. Liq. 4, H227 |
| Oxacyclohexade cenone mixture | | 5.0- 10.0 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| 2-(4-tert-butylbenzyl)propionaldehyde | (CAS-No.) 80-54-6 | 1.0 - 5.0 | Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 5 (Dermal), H313 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Call a poison center or a doctor if you feel unwell.
- 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 : Rinse mouth. 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.

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.

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.

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 : Mechanically recover the product.
- Other information : Dispose of materials or solid residues at an authorized site.

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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. Wear personal protective equipment. 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.

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 : Solid
- Appearance : Solid.
- Colour : Black.
- 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 : No data available
- Freezing point : Not applicable
- Boiling point : No data available
- Flash point : ≈ 96 °C
- Auto-ignition temperature : Not applicable
- Decomposition temperature : No data available
- Flammability (solid, gas) : Non flammable.
- 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
- Relative gas density : No data available
- Solubility : No data available
- 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

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| | |
|-----------------------------|---------------------|
| Explosive limits | : Not applicable |
| 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) | : May be harmful if swallowed. |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| | |
|---------------|-----------------------|
| ATE ZA (oral) | 2500 mg/kg bodyweight |
|---------------|-----------------------|

| Dipropylene glycol methyl ether (34590-94-8) | |
|--|---|
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rat | > 19020 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LD50 dermal rabbit | 9510 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

| 2-(4-tert-butylbenzyl)propionaldehyde (80-54-6) | |
|---|--|
| LD50 oral rat | 1390 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rat | > 2000 mg/kg (Equivalent or similar to OECD 402, Rat, Male / female, Experimental value, Dermal, 14 day(s)) |
| LC50 inhalation rat (mg/l) | > 0.18 mg/l (IRT (inhalation risk test), 7 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Causes mild skin irritation. |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |

| Dipropylene glycol methyl ether (34590-94-8) | |
|--|--|
| NOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight Animal: rat, Guideline: other:KANPOGYO No.700, YAKUHATSU No. 1039.61, and KIKYKU No. 1014. |
| NOAEL (dermal, rat/rabbit, 90 days) | 2850 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |

| | |
|-------------------|------------------|
| Aspiration hazard | : Not classified |
|-------------------|------------------|

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SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Ecology - general | : Toxic to aquatic life. Toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute) | : Toxic to aquatic life. |
| Hazardous to the aquatic environment, long-term (chronic) | : Toxic to aquatic life with long lasting effects. |

| Dipropylene glycol methyl ether (34590-94-8) | |
|--|--|
| LC50 fish 1 | > 1000 mg/l Test organisms (species): Poecilia reticulata |
| EC50 other aquatic organisms 1 | 1930 mg/l Test organisms (species): other aquatic crustacea:Acartia tonsa |
| EC50 72h algae (1) | > 969 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| LOEC (chronic) | 0.5 mg/l Test organisms (species): Daphnia magna Duration: '22 d' |
| NOEC (chronic) | >= 0.5 mg/l Test organisms (species): Daphnia magna Duration: '22 d' |

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

| 2-(4-tert-butylbenzyl)propionaldehyde (80-54-6) | |
|---|---|
| LC50 fish 1 | 2.04 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Flow-through system, Fresh water, Experimental value, GLP) |
| EC50 Daphnia 1 | 10.7 mg/l (Other, 48 h, Daphnia magna, Static system, Fresh water, Experimental value) |
| EC50 72h algae (1) | 29.155 mg/l (DIN 38412-9, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Growth rate) |
| Log Pow | 4.2 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 24 °C) |
| Log Koc | 3.11 (log Koc, PCKOCWIN v1.66, Calculated value) |

12.2. Persistence and degradability

| Heart air freshener - Fireworx | |
|--------------------------------|-------------------------------------|
| Persistence and degradability | No additional information available |

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

| 2-(4-tert-butylbenzyl)propionaldehyde (80-54-6) | |
|---|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

12.3. Bioaccumulative potential

| Heart air freshener - Fireworx | |
|--------------------------------|-------------------------------------|
| Bioaccumulative potential | No additional information available |

| 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). |

| 2-(4-tert-butylbenzyl)propionaldehyde (80-54-6) | |
|---|---|
| Log Pow | See section 12.1 on ecotoxicology |
| Log Koc | See section 12.1 on ecotoxicology |
| Bioaccumulative potential | Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$). |

12.4. Mobility in soil

| Heart air freshener - Fireworx | |
|--------------------------------|-------------------------------------|
| Mobility in soil | No additional information available |

| 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. |

| 2-(4-tert-butylbenzyl)propionaldehyde (80-54-6) | |
|---|-------------------------------------|
| Log Pow | See section 12.1 on ecotoxicology |
| Log Koc | See section 12.1 on ecotoxicology |
| Ecology - soil | Low potential for mobility in soil. |

12.5. Other adverse effects

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

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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 |
| 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

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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

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Full text of H-statements:

| | |
|------|---|
| H227 | Combustible liquid |
| H302 | Harmful if swallowed. |
| H303 | May be harmful if swallowed |
| H313 | May be harmful in contact with skin |
| H316 | Causes mild skin irritation |
| H317 | May cause an allergic skin reaction. |
| 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. |

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.