



# Fresh 24 - Nu car

## Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010  
Issue date: 2/24/2022 Revision date: 2/26/2024 Version: 1.1

### SECTION 1: Identification

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Fresh 24 - Nu car  
Type of product : Vehicle interior air freshener  
Product code : SH1243  
Product group : Trade product

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

Use of the substance/mixture :

#### 1.3. Supplier's details

##### Manufacturer

Shield Chemicals (Pty) Ltd  
9 London Rd Apex  
P.O. Box 1939  
1501 Benoni – Gauteng  
South Africa  
T (011) 421 7111  
Contact: Jayson Clark

#### 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 |
| Acute toxicity (oral), Category 4                                 | H302 |
| Skin corrosion/irritation, Category 2                             | H315 |
| Serious eye damage/eye irritation, Category 2A                    | H319 |
| Skin sensitisation, Category 1                                    | H317 |
| Carcinogenicity, Category 2                                       | H351 |
| Specific target organ toxicity — Single exposure, Category 2      | H371 |
| Hazardous to the aquatic environment — Acute Hazard, Category 1   | H400 |
| 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) :



Signal word (GHS-ZA) :

Warning

Hazardous ingredients :

benzyl benzoate, linalool, 2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethyl acetate, 2,6-dimethyl-7-octen-2-ol, linalyl acetate, 3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate, coumarin

Hazard statements (GHS ZA) :

H227 - Combustible liquid  
H302 - Harmful if swallowed.  
H315 - Causes skin irritation.

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### Precautionary statements (GHS ZA)

H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H351 - Suspected of causing cancer.  
H371 - May cause damage to organs.  
H400 - Very toxic to aquatic life.  
H411 - Toxic to aquatic life with long lasting effects.  
: 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.  
P260 - Do not breathe vapours.  
P261 - Avoid breathing vapours.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
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.  
P301+P312 - IF SWALLOWED: Call a doctor if you feel unwell.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P311 - IF exposed or concerned: Call a doctor.  
P308+P313 - IF exposed or concerned: Get medical advice.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P330 - Rinse mouth.  
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 (CO<sub>2</sub>), 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,May cause damage to organs,Harmful if swallowed,Causes skin irritation,May cause an allergic skin reaction,Causes serious eye irritation,Very toxic to aquatic life,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  |
|-----------------|--------------------|-------------|---|
| benzyl benzoate | CAS-No.: 120-51-4  | 20.0 - 30.0 | Acute Tox. 5 (Oral), H303<br>Acute Tox. 5 (Dermal), H313<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411                          |
| linalool        | CAS-No.: 78-70-6   | 10.0 - 20.0 | Flam. Liq. 4, H227<br>Acute Tox. 5 (Oral), H303<br>Acute Tox. Not classified (Dermal)<br>Skin Sens. 1B, H317<br>Aquatic Acute 3, H402 |

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| Name  | Product identifier  | %           | Classification according to the United Nations GHS  |
|---|---------------------|-------------|---|
| 2-(6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl)ethyl acetate | -                   | 10.0 - 20.0 | Eye Irrit. 2A, H319<br>Skin Sens. 1B, H317<br>Aquatic Chronic 2, H411   |
| 2,6-dimethyl-7-octen-2-ol                                 | CAS-No.: 18479-58-8 | 10.0 - 20.0 | Flam. Liq. 4, H227  |
| linalyl acetate   | CAS-No.: 115-95-7   | 10.0 - 20.0 | Flam. Liq. 4, H227<br>Acute Tox. Not classified (Oral)<br>Acute Tox. Not classified (Dermal)<br>Aquatic Acute 3, H402 |
| 3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate    | -                   | 1.0 - 10.0  | Aquatic Chronic 3, H412   |
| coumarin  | CAS-No.: 91-64-5    | 1.0 - 10.0  | Acute Tox. 3 (Oral), H301<br>Aquatic Acute 2, H401  |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : IF exposed or concerned: Get medical advice/attention. 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 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    | : 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. |
| 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.          |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

#### 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

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### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe vapours. Avoid contact with skin and eyes.

### 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. Do not breathe vapours. Avoid contact with skin and eyes.  
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

**Personal protective equipment symbol(s):**



### 8.4. Exposure limit values for the other components

No additional information available

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### 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               |
| Flash point                                     | : ≈ 87 °C closed cup              |
| Auto-ignition temperature                       | : No data available               |
| Decomposition temperature                       | : No data available               |
| Flammability (solid, gas)                       | : Not applicable                  |
| Vapour pressure                                 | : ≈ 0.21 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   | : 0.977 – 0.987 g/cm <sup>3</sup> |
| Relative gas density                            | : No data available               |
| Solubility                                      | : Insoluble in water.             |
| Partition coefficient n-octanol/water (Log Pow) | : No data available               |
| Partition coefficient n-octanol/water (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

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### 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) : Harmful if swallowed.  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### Fresh 24 - Nu car

|               |                      |
|---------------|----------------------|
| ATE ZA (oral) | 500 mg/kg bodyweight |
|---------------|----------------------|

#### benzyl benzoate (120-51-4)

|               |  |
|---------------|--|
| LD50 oral rat | > 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
|---------------|--|

|                    |   |
|--------------------|---|
| LD50 dermal rabbit | > 2 ml/kg (Modification of Draize 1959 method, 4 h, Rabbit, Experimental value, Dermal) |
|--------------------|---|

#### 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.  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Suspected of causing cancer.  
Reproductive toxicity : Not classified  
STOT-single exposure : May cause damage to organs.  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

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

#### benzyl benzoate (120-51-4)

|                 |  |
|-----------------|--|
| LC50 - Fish [1] | 2.32 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP) |
|-----------------|--|

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| <b>benzyl benzoate (120-51-4)</b>                          |  |
|--|--|
| EC50 - Crustacea [1]                                       | 3.09 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)  |
| EC50 72h - Algae [1]                                       | 0.475 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)                            |
| BCF - Fish [1]   | 2.286 (BCFBAF v3.00, Pisces, QSAR)   |
| Partition coefficient n-octanol/water (Log Pow)            | 3.97 (Experimental value, 25 °C)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value) |

| <b>linalool (78-70-6)</b>                       |   |
|---|---|
| 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 - Crustacea [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)      |
| Partition coefficient n-octanol/water (Log Pow) | 2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C)   |

| <b>2,6-dimethyl-7-octen-2-ol (18479-58-8)</b>   |                        |
|---|------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 3.47 (Estimated value) |

| <b>linalyl acetate (115-95-7)</b>                          |  |
|--|--|
| 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 - Crustacea [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 (BCFBAF v3.00, Calculated value, Fresh weight)  |
| Partition coefficient n-octanol/water (Log Pow)            | 3.9 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.71 (log Koc, PCKOCWIN v1.66, Calculated value)   |

| <b>coumarin (91-64-5)</b>                                  |   |
|--|---|
| LC50 - Fish [1]  | 2.94 mg/l (96 h, Pisces, QSAR)  |
| EC50 - Crustacea [1]                                       | 24.3 – 36.9 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| Partition coefficient n-octanol/water (Log Pow)            | 1.39 (QSAR, 25 °C)  |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.63 (log Koc, QSAR)  |

## 12.2. Persistence and degradability

| <b>Fresh 24 - Nu car</b>      |                                     |
|-------------------------------|-------------------------------------|
| Persistence and degradability | No additional information available |

  

| <b>benzyl benzoate (120-51-4)</b> |                                 |
|-----------------------------------|---------------------------------|
| Persistence and degradability     | Readily biodegradable in water. |

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|   |   |
|---|---|
| <b>linalool (78-70-6)</b>                     |   |
| Persistence and degradability                 | Readily biodegradable in water.               |
| <b>2,6-dimethyl-7-octen-2-ol (18479-58-8)</b> |   |
| Persistence and degradability                 | Biodegradability in water: no data available. |
| <b>linalyl acetate (115-95-7)</b>             |   |
| Persistence and degradability                 | Readily biodegradable in water.               |
| <b>coumarin (91-64-5)</b>                     |   |
| Persistence and degradability                 | Readily biodegradable in water.               |

### 12.3. Bioaccumulative potential

|  |  |
|--|--|
| <b>Fresh 24 - Nu car</b>                                   |  |
| Bioaccumulative potential                                  | No additional information available  |
| <b>benzyl benzoate (120-51-4)</b>                          |  |
| BCF - Fish [1]   | 2.286 (BCFBAF v3.00, Pisces, QSAR)   |
| Partition coefficient n-octanol/water (Log Pow)            | 3.97 (Experimental value, 25 °C)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value) |
| Bioaccumulative potential                                  | Low potential for bioaccumulation (Log Kow < 4).   |
| <b>linalool (78-70-6)</b>                                  |  |
| Partition coefficient n-octanol/water (Log Pow)            | 2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C)  |
| Bioaccumulative potential                                  | Low potential for bioaccumulation (Log Kow < 4).   |
| <b>2,6-dimethyl-7-octen-2-ol (18479-58-8)</b>              |  |
| Partition coefficient n-octanol/water (Log Pow)            | 3.47 (Estimated value)   |
| Bioaccumulative potential                                  | Low potential for bioaccumulation (Log Kow < 4).   |
| <b>linalyl acetate (115-95-7)</b>                          |  |
| BCF - Fish [1]   | 173.9 l/kg (BCFBAF v3.00, Calculated value, Fresh weight)  |
| Partition coefficient n-octanol/water (Log Pow)            | 3.9 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.71 (log Koc, PCKOCWIN v1.66, Calculated value)   |
| Bioaccumulative potential                                  | Low potential for bioaccumulation (BCF < 500).   |
| <b>coumarin (91-64-5)</b>                                  |  |
| Partition coefficient n-octanol/water (Log Pow)            | 1.39 (QSAR, 25 °C)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.63 (log Koc, QSAR)   |
| Bioaccumulative potential                                  | Low potential for bioaccumulation (Log Kow < 4).   |

### 12.4. Mobility in soil

|                          |                                     |
|--------------------------|-------------------------------------|
| <b>Fresh 24 - Nu car</b> |                                     |
| Mobility in soil         | No additional information available |



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| <b>benzyl benzoate (120-51-4)</b>                          |  |
|--|--|
| Surface tension  | 0.027 N/m (210 °C)   |
| Partition coefficient n-octanol/water (Log Pow)            | 3.97 (Experimental value, 25 °C)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value) |
| Ecology - soil   | Low potential for mobility in soil.  |
| <b>linalool (78-70-6)</b>                                  |  |
| Surface tension  | 8.3 mN/m (20 °C, ISO 9101: Surface active agents - Determination of interfacial tension)   |
| Partition coefficient n-octanol/water (Log Pow)            | 2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C)  |
| Ecology - soil   | No (test)data on mobility of the substance available.  |
| <b>2,6-dimethyl-7-octen-2-ol (18479-58-8)</b>              |  |
| Partition coefficient n-octanol/water (Log Pow)            | 3.47 (Estimated value)   |
| Ecology - soil   | No (test)data on mobility of the substance available.  |
| <b>linalyl acetate (115-95-7)</b>                          |  |
| Partition coefficient n-octanol/water (Log Pow)            | 3.9 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.71 (log Koc, PCKOCWIN v1.66, Calculated value)   |
| Ecology - soil   | Low potential for adsorption in soil.  |
| <b>coumarin (91-64-5)</b>                                  |  |
| Partition coefficient n-octanol/water (Log Pow)            | 1.39 (QSAR, 25 °C)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.63 (log Koc, QSAR)   |
| 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. |

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| SANS                                    | IMDG  | IATA                                |
|---|---|-------------------------------------|
| <b>14.3. Transport hazard class(es)</b> |   |                                     |
| 9                                       | 9   | 9                                   |
|   |   |                                     |
| <b>14.4. Packing group</b>              |   |                                     |
| III                                     | III   | III                                 |
| <b>14.5. Environmental hazards</b>      |   |                                     |
| Dangerous for the environment : Yes     | Dangerous for the environment : Yes<br>Marine pollutant : Yes | Dangerous for the environment : Yes |
| 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 Packing instructions (SANS)         | : P001, IBC03, LP01  |
| 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

# Fresh 24 - Nu car

## Safety Data Sheet

according to SANS 10234:2019 and SANS 11014:2010

### 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 : 24/02/2022

Revision date : 26/02/2024

| Full text of H-statements |   |
|---------------------------|---|
| H226                      | Flammable liquid and vapour.                          |
| H227                      | Combustible liquid                                    |
| H228                      | Flammable solid.                                      |
| 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.                        |
| H351                      | Suspected of causing cancer.                          |
| H371                      | May cause damage to organs.                           |
| 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.    |

Safety Data Sheet (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.