

# Asaleo Care Tork Premium Airfreshener Mixed AI Essity Australasia

Chemwatch Hazard Alert Code: 4

Chemwatch: 67-0312

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Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

S.GHS.AUS.EN

## SECTION 1 Identification of the substance / mixture and of the company / undertaking

### Product Identifier

|                               |                                                |
|-------------------------------|------------------------------------------------|
| Product name                  | Asaleo Care Tork Premium Airfreshener Mixed AI |
| Chemical Name                 | Not Applicable                                 |
| Synonyms                      | Not Available                                  |
| Proper shipping name          | AEROSOLS                                       |
| Chemical formula              | Not Applicable                                 |
| Other means of identification | Not Available                                  |

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

|                          |                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------|
| Relevant identified uses | Air freshener.<br>Application is by spray atomisation from a hand held aerosol pack |
|--------------------------|-------------------------------------------------------------------------------------|

### Details of the manufacturer or supplier of the safety data sheet

|                         |                                                               |
|-------------------------|---------------------------------------------------------------|
| Registered company name | Essity Australasia                                            |
| Address                 | 30-32 Westall Road SPRINGVALE VIC 3171 Australia              |
| Telephone               | (03) 9550 2999                                                |
| Fax                     | 1800 630 234                                                  |
| Website                 | <a href="http://www.tork.com.au/">http://www.tork.com.au/</a> |
| Email                   | customerservice.anz@essity.com                                |

### Emergency telephone number

|                                   |                    |                                     |
|-----------------------------------|--------------------|-------------------------------------|
| Association / Organisation        | Essity Australasia | CHEMWATCH EMERGENCY RESPONSE (24/7) |
| Emergency telephone numbers       | 1800 643 634       | +61 1800 951 288                    |
| Other emergency telephone numbers | Not Available      | +61 3 9573 3188                     |

Once connected and if the message is not in your preferred language then please dial 01

## SECTION 2 Hazards identification

### Classification of the substance or mixture

|                               |                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poisons Schedule              | Not Applicable                                                                                                                                                                                                                                                                                                          |
| Classification <sup>[1]</sup> | Aerosols Category 1, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Carcinogenicity Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 2 |
| Legend:                       | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI                                                                                                                                                                                     |

### Label elements

## Asaleo Care Tork Premium Airfreshener Mixed AI

|                     |                                                                                                                                                                                                                                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictogram(s) |     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|             |        |
|-------------|--------|
| Signal word | Danger |
|-------------|--------|

## Hazard statement(s)

|           |                                                                          |
|-----------|--------------------------------------------------------------------------|
| AUH019    | May form explosive peroxides.                                            |
| AUH044    | Risk of explosion if heated under confinement.                           |
| H222+H229 | Extremely flammable aerosol. Pressurized container: may burst if heated. |
| H315      | Causes skin irritation.                                                  |
| H317      | May cause an allergic skin reaction.                                     |
| H319      | Causes serious eye irritation.                                           |
| H336      | May cause drowsiness or dizziness.                                       |
| H351      | Suspected of causing cancer.                                             |
| H411      | Toxic to aquatic life with long lasting effects.                         |

## Precautionary statement(s) Prevention

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| P201 | Obtain special instructions before use.                                                        |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source.                                        |
| P251 | Do not pierce or burn, even after use.                                                         |

## Precautionary statement(s) Response

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P308+P313      | IF exposed or concerned: Get medical advice/ attention.                                                                          |
| 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. |
| P312           | Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.                                                            |

## Precautionary statement(s) Storage

|           |                                                                              |
|-----------|------------------------------------------------------------------------------|
| P405      | Store locked up.                                                             |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed.             |

## Precautionary statement(s) Disposal

|      |                                                                                                                                  |
|------|----------------------------------------------------------------------------------------------------------------------------------|
| P501 | Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. |
|------|----------------------------------------------------------------------------------------------------------------------------------|

## SECTION 3 Composition / information on ingredients

## Substances

See section below for composition of Mixtures

## Mixtures

| CAS No                                                                                                                                                                                                      | %[weight] | Name               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------|
| 64-17-5                                                                                                                                                                                                     | 10-20     | <u>ethanol</u>     |
| 67-63-0                                                                                                                                                                                                     | 1-10      | <u>isopropanol</u> |
| 5989-27-5                                                                                                                                                                                                   | 1-10      | <u>d-limonene</u>  |
| 5392-40-5                                                                                                                                                                                                   | 1-10      | <u>citral</u>      |
| <b>Legend:</b> 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L; * EU IOELVs available |           |                    |

## SECTION 4 First aid measures

## Asaleo Care Tork Premium Airfreshener Mixed AI

## Description of first aid measures

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact  | <p>If aerosols come in contact with the eyes:</p> <ul style="list-style-type: none"> <li>▶ Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.</li> <li>▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>▶ Transport to hospital or doctor without delay.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>                                               |
| Skin Contact | <p>If solids or aerosol mists are deposited upon the skin:</p> <ul style="list-style-type: none"> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Remove any adhering solids with industrial skin cleansing cream.</li> <li>▶ <b>DO NOT use solvents.</b></li> <li>▶ Seek medical attention in the event of irritation.</li> </ul>                                                                                                                                                                                                                                             |
| Inhalation   | <p>If aerosols, fumes or combustion products are inhaled:</p> <ul style="list-style-type: none"> <li>▶ Remove to fresh air.</li> <li>▶ Lay patient down. Keep warm and rested.</li> <li>▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>▶ Transport to hospital, or doctor.</li> </ul> |
| Ingestion    | Not considered a normal route of entry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5 Firefighting measures

## Extinguishing media

## SMALL FIRE:

- ▶ Water spray, dry chemical or CO2

## LARGE FIRE:

- ▶ Water spray or fog.

## Special hazards arising from the substrate or mixture

|                      |                                                                                                                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire Incompatibility | <ul style="list-style-type: none"> <li>▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result</li> </ul> |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Advice for firefighters

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire Fighting         | <ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ May be violently or explosively reactive.</li> <li>▶ Wear breathing apparatus plus protective gloves.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water course.</li> </ul>                                                                                                                                                                                                                                                                       |
| Fire/Explosion Hazard | <ul style="list-style-type: none"> <li>▶ Liquid and vapour are highly flammable.</li> <li>▶ Severe fire hazard when exposed to heat or flame.</li> <li>▶ Vapour forms an explosive mixture with air.</li> <li>▶ Severe explosion hazard, in the form of vapour, when exposed to flame or spark.</li> </ul> <p>Combustion products include:<br/>carbon monoxide (CO)<br/>carbon dioxide (CO2)<br/>other pyrolysis products typical of burning organic material.</p> <p><b>WARNING:</b> Long standing in contact with air and light may result in the formation of potentially explosive peroxides.</p> |
| HAZCHEM               | Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## SECTION 6 Accidental release measures

## Personal precautions, protective equipment and emergency procedures

See section 8

## Environmental precautions

See section 12

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## Methods and material for containment and cleaning up

|              |                                                                                                                                                                                                                                                                                                                                                              |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minor Spills | <p>Environmental hazard - contain spillage.</p> <ul style="list-style-type: none"><li>▸ Clean up all spills immediately.</li><li>▸ Avoid breathing vapours and contact with skin and eyes.</li><li>▸ Wear protective clothing, impervious gloves and safety glasses.</li><li>▸ Shut off all possible sources of ignition and increase ventilation.</li></ul> |
| Major Spills | <p>Environmental hazard - contain spillage.</p> <ul style="list-style-type: none"><li>▸ Clear area of personnel and move upwind.</li><li>▸ Alert Fire Brigade and tell them location and nature of hazard.</li><li>▸ May be violently or explosively reactive.</li><li>▸ Wear breathing apparatus plus protective gloves.</li></ul>                          |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 Handling and storage

## Precautions for safe handling

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safe handling     | <ul style="list-style-type: none"><li>▸ Avoid all personal contact, including inhalation.</li><li>▸ Wear protective clothing when risk of exposure occurs.</li><li>▸ Use in a well-ventilated area.</li><li>▸ Prevent concentration in hollows and sumps.</li></ul>                                                                                                                                                                                                                                                           |
| Other information | <p>Consider storage under inert gas.</p> <ul style="list-style-type: none"><li>▸ Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can</li><li>▸ Store in original containers in approved flammable liquid storage area.</li><li>▸ <b>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</b></li><li>▸ No smoking, naked lights, heat or ignition sources.</li><li>▸ Keep containers securely sealed.</li></ul> |

## Conditions for safe storage, including any incompatibilities

|                         |                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Suitable container      | <ul style="list-style-type: none"><li>▸ Aerosol dispenser.</li><li>▸ Check that containers are clearly labelled.</li></ul>        |
| Storage incompatibility | <ul style="list-style-type: none"><li>▸ Avoid oxidising agents, acids, acid chlorides, acid anhydrides, chloroformates.</li></ul> |

## SECTION 8 Exposure controls / personal protection

## Control parameters

## Occupational Exposure Limits (OEL)

## INGREDIENT DATA

| Source                       | Ingredient  | Material name     | TWA                   | STEL                 | Peak          | Notes         |
|------------------------------|-------------|-------------------|-----------------------|----------------------|---------------|---------------|
| Australia Exposure Standards | ethanol     | Ethyl alcohol     | 1000 ppm / 1880 mg/m3 | Not Available        | Not Available | Not Available |
| Australia Exposure Standards | isopropanol | Isopropyl alcohol | 400 ppm / 983 mg/m3   | 1230 mg/m3 / 500 ppm | Not Available | Not Available |

## Emergency Limits

| Ingredient  | TEEL-1        | TEEL-2        | TEEL-3      |
|-------------|---------------|---------------|-------------|
| ethanol     | Not Available | Not Available | 15000* ppm  |
| isopropanol | 400 ppm       | 2000* ppm     | 12000** ppm |
| d-limonene  | 15 ppm        | 67 ppm        | 170 ppm     |

| Ingredient  | Original IDLH | Revised IDLH  |
|-------------|---------------|---------------|
| ethanol     | 3,300 ppm     | Not Available |
| isopropanol | 2,000 ppm     | Not Available |
| d-limonene  | Not Available | Not Available |
| citral      | Not Available | Not Available |

## Occupational Exposure Banding

Continued...

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| Ingredient    | Occupational Exposure Band Rating                                                                                                                                                                                                                                                                                                                                  | Occupational Exposure Band Limit |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| d-limonene    | E                                                                                                                                                                                                                                                                                                                                                                  | ≤ 0.1 ppm                        |
| citral        | E                                                                                                                                                                                                                                                                                                                                                                  | ≤ 0.1 ppm                        |
| <b>Notes:</b> | Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health. |                                  |

## Exposure controls

|                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appropriate engineering controls</b>                                      | Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.<br>The basic types of engineering controls are:<br>Process controls which involve changing the way a job activity or process is done to reduce the risk.<br>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. |
| <b>Individual protection measures, such as personal protective equipment</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Eye and face protection</b>                                               | No special equipment for minor exposure i.e. when handling small quantities.<br><b>OTHERWISE:</b> For potentially moderate or heavy exposures:<br><ul style="list-style-type: none"> <li>▸ Safety glasses with side shields.</li> <li>▸ <b>NOTE:</b> Contact lenses pose a special hazard; soft lenses may absorb irritants and <b>ALL</b> lenses concentrate them.</li> </ul>                                                                                                                                                                                                                                                                            |
| <b>Skin protection</b>                                                       | See Hand protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Hands/feet protection</b>                                                 | <ul style="list-style-type: none"> <li>▸ No special equipment needed when handling small quantities.</li> <li>▸ <b>OTHERWISE:</b></li> <li>▸ For potentially moderate exposures:</li> <li>▸ Wear general protective gloves, eg. light weight rubber gloves.</li> <li>▸ For potentially heavy exposures:</li> <li>▸ Wear chemical protective gloves, eg. PVC. and safety footwear.</li> </ul>                                                                                                                                                                                                                                                              |
| <b>Body protection</b>                                                       | See Other protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Other protection</b>                                                      | No special equipment needed when handling small quantities.<br><b>OTHERWISE:</b> <ul style="list-style-type: none"> <li>▸ Overalls.</li> <li>▸ Skin cleansing cream.</li> <li>▸ Eyewash unit.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Recommended material(s)

## GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

**"Forsberg Clothing Performance Index".**

The effect(s) of the following substance(s) are taken into account in the **computer-generated** selection:

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| Material          | CPI |
|-------------------|-----|
| NITRILE           | A   |
| BUTYL             | C   |
| NAT+NEOPR+NITRILE | C   |
| NATURAL RUBBER    | C   |
| NATURAL+NEOPRENE  | C   |
| NEOPRENE          | C   |
| NITRILE+PVC       | C   |
| PE/EVAL/PE        | C   |
| PVA               | C   |
| PVC               | C   |
| VITON             | C   |

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

## Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|------------------------------------|----------------------|----------------------|------------------------|
| up to 10 x ES                      | Air-line*            | A-2 P2               | A-PAPR-2 P2 ^          |
| up to 20 x ES                      | -                    | A-3 P2               | -                      |
| 20+ x ES                           | -                    | Air-line**           | -                      |

\* - Continuous-flow; \*\* - Continuous-flow or positive pressure demand

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

Continued...

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C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

## SECTION 9 Physical and chemical properties

### Information on basic physical and chemical properties

|                                                     |                                                             |                                                |                |
|-----------------------------------------------------|-------------------------------------------------------------|------------------------------------------------|----------------|
| <b>Appearance</b>                                   | Colourless to pale yellow liquid with characteristic odour. |                                                |                |
| <b>Physical state</b>                               | Liquid                                                      | <b>Relative density (Water = 1)</b>            | 0.619-0.645    |
| <b>Odour</b>                                        | Not Available                                               | <b>Partition coefficient n-octanol / water</b> | Not Available  |
| <b>Odour threshold</b>                              | Not Available                                               | <b>Auto-ignition temperature (°C)</b>          | Not Available  |
| <b>pH (as supplied)</b>                             | Not Available                                               | <b>Decomposition temperature (°C)</b>          | Not Available  |
| <b>Melting point / freezing point (°C)</b>          | Not Available                                               | <b>Viscosity (cSt)</b>                         | Not Available  |
| <b>Initial boiling point and boiling range (°C)</b> | Not Available                                               | <b>Molecular weight (g/mol)</b>                | Not Applicable |
| <b>Flash point (°C)</b>                             | Not Available                                               | <b>Taste</b>                                   | Not Available  |
| <b>Evaporation rate</b>                             | Not Available                                               | <b>Explosive properties</b>                    | Not Available  |
| <b>Flammability</b>                                 | Not Available                                               | <b>Oxidising properties</b>                    | Not Available  |
| <b>Upper Explosive Limit (%)</b>                    | 19                                                          | <b>Surface Tension (dyn/cm or mN/m)</b>        | Not Available  |
| <b>Lower Explosive Limit (%)</b>                    | 1.8                                                         | <b>Volatile Component (%vol)</b>               | Not Available  |
| <b>Vapour pressure (kPa)</b>                        | 350-450                                                     | <b>Gas group</b>                               | Not Available  |
| <b>Solubility in water</b>                          | Not Available                                               | <b>pH as a solution (1%)</b>                   | Not Available  |
| <b>Vapour density (Air = 1)</b>                     | Not Available                                               | <b>VOC g/L</b>                                 | Not Available  |

## SECTION 10 Stability and reactivity

|                                           |                                                                                                                                                                                                            |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | See section 7                                                                                                                                                                                              |
| <b>Chemical stability</b>                 | <ul style="list-style-type: none"> <li>▸ Elevated temperatures.</li> <li>▸ Presence of open flame.</li> <li>▸ Product is considered stable.</li> <li>▸ Hazardous polymerisation will not occur.</li> </ul> |
| <b>Possibility of hazardous reactions</b> | See section 7                                                                                                                                                                                              |
| <b>Conditions to avoid</b>                | See section 7                                                                                                                                                                                              |
| <b>Incompatible materials</b>             | See section 7                                                                                                                                                                                              |
| <b>Hazardous decomposition products</b>   | See section 5                                                                                                                                                                                              |

## SECTION 11 Toxicological information

### Information on toxicological effects

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhaled</b> | <p>There is strong evidence to suggest that this material can cause, if inhaled once, very serious, irreversible damage of organs. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.</p> <p>There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.</p> <p>Aliphatic alcohols with more than 3-carbons cause headache, dizziness, drowsiness, muscle weakness and delirium, central depression, coma, seizures and behavioural changes. Secondary respiratory depression and failure, as well as low blood pressure and irregular heart rhythms, may follow.</p> |
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|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | <p><b>WARNING:</b> Intentional misuse by concentrating/inhaling contents may be lethal.</p> <p>Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Ingestion    | <p>There is strong evidence to suggest that this material can cause, if swallowed once, very serious, irreversible damage of organs. Accidental ingestion of the material may be damaging to the health of the individual.</p> <p>Overexposure to non-ring alcohols causes nervous system symptoms. These include headache, muscle weakness and inco-ordination, giddiness, confusion, delirium and coma.</p> <p>Considered an unlikely route of entry in commercial/industrial environments</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Skin Contact | <p>This material can cause inflammation of the skin on contact in some persons.</p> <p>There is strong evidence to suggest that this material, on a single contact with skin, can cause very serious, irreversible damage of organs.</p> <p>The material may accentuate any pre-existing dermatitis condition</p> <p>Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.</p> <p>Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.</p> <p>Spray mist may produce discomfort</p> <p>Most liquid alcohols appear to act as primary skin irritants in humans. Significant percutaneous absorption occurs in rabbits but not apparently in man.</p> <p>Open cuts, abraded or irritated skin should not be exposed to this material</p> <p>Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Eye          | <p>If applied to the eyes, this material causes severe eye damage.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Chronic      | <p>There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.</p> <p>Based on experiments and other information, there is ample evidence to presume that exposure to this material can cause genetic defects that can be inherited.</p> <p>Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.</p> <p>This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects.</p> <p>Ample evidence exists that this material directly causes reduced fertility</p> <p>Ample evidence exists that developmental disorders are directly caused by human exposure to the material.</p> <p>Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.</p> <p>Prolonged exposure to ethanol may cause damage to the liver and cause scarring. It may also worsen damage caused by other agents.</p> <p>Exposure to Aliphatic aldehydes can cause irritation of the skin.</p> <p>A number of common flavor and fragrance chemicals can form peroxides surprisingly fast in air. Antioxidants can in most cases minimize the oxidation.</p> <p>Fragrance terpenes are easily oxidized in air. Non-oxidised forms are very weak sensitizers; however, after oxidation, the hydroperoxides are strong sensitizers which may cause allergic reactions.</p> <p>d-Limonene may cause damage to and growths in the kidney. These growths can progress to cancer.</p> <p>Peroxidisable terpenes and terpenoids should only be used when the level of peroxides is kept to the lowest practicable level, for instance by adding antioxidants at the time of production. This should be less than 10 millimoles of peroxide per litre. This is because peroxides may have sensitizing properties.</p> <p>Long term, or repeated exposure of isopropanol may cause inco-ordination and tiredness.</p> <p>Repeated inhalation exposure to isopropanol may produce sleepiness, inco-ordination and liver degeneration. Animal data show developmental effects only at exposure levels that produce toxic effects in adult animals. Isopropanol does not cause genetic damage.</p> <p><b>WARNING:</b> Aerosol containers may present pressure related hazards.</p> |

| Asaleo Care Tork Premium Airfreshener Mixed AI | TOXICITY                                         | IRRITATION                                               |
|------------------------------------------------|--------------------------------------------------|----------------------------------------------------------|
|                                                | Not Available                                    | Not Available                                            |
| ethanol                                        | TOXICITY                                         | IRRITATION                                               |
|                                                | Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> | Eye (rabbit): 500 mg SEVERE                              |
|                                                | Inhalation(Rat) LC50: 64000 ppm4h <sup>[2]</sup> | Eye (rabbit):100mg/24hr-moderate                         |
|                                                | Oral (Rat) LD50: 7060 mg/kg <sup>[2]</sup>       | Eye: adverse effect observed (irritating) <sup>[1]</sup> |
|                                                |                                                  | Skin (rabbit):20 mg/24hr-moderate                        |
|                                                |                                                  | Skin (rabbit):400 mg (open)-mild                         |
| isopropanol                                    | TOXICITY                                         | IRRITATION                                               |
|                                                | Dermal (rabbit) LD50: 12800 mg/kg <sup>[2]</sup> | Eye (rabbit): 10 mg - moderate                           |
|                                                | Inhalation(Mouse) LC50: 53 mg/L4h <sup>[2]</sup> | Eye (rabbit): 100 mg - SEVERE                            |
|                                                | Oral (Mouse) LD50: 3600 mg/kg <sup>[2]</sup>     | Eye (rabbit): 100mg/24hr-moderate                        |

## Asaleo Care Tork Premium Airfreshener Mixed AI

|                |                                                                                                                                                                                                                             |                                                                  |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
|                |                                                                                                                                                                                                                             | Skin (rabbit): 500 mg - mild                                     |
| d-limonene     | <b>TOXICITY</b>                                                                                                                                                                                                             | <b>IRRITATION</b>                                                |
|                | Dermal (rabbit) LD50: >5000 mg/kg <sup>[2]</sup>                                                                                                                                                                            | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>  |
|                | Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>                                                                                                                                                                                 | Skin (rabbit): 500mg/24h moderate                                |
|                |                                                                                                                                                                                                                             | Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |
| citral         | <b>TOXICITY</b>                                                                                                                                                                                                             | <b>IRRITATION</b>                                                |
|                | dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup>                                                                                                                                                                               | Skin (guinea pig): 1%/48h - mod                                  |
|                | Oral (Rat) LD50: 4960 mg/kg <sup>[2]</sup>                                                                                                                                                                                  | Skin (guinea pig): 100mg/24h SEVERE                              |
|                |                                                                                                                                                                                                                             | Skin (human): 40 mg/24h - mild                                   |
|                |                                                                                                                                                                                                                             | Skin (man): 16 mg/48h - SEVERE                                   |
|                |                                                                                                                                                                                                                             | Skin (pig): 50 mg/24h - SEVERE                                   |
|                |                                                                                                                                                                                                                             | Skin (rabbit): 100 mg/24h-SEVERE                                 |
|                |                                                                                                                                                                                                                             | Skin (rabbit): 500 mg/24h - mod                                  |
| <b>Legend:</b> | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |                                                                  |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ISOPROPANOL</b> | Isopropanol is irritating to the eyes, nose and throat but generally not to the skin. Prolonged high dose exposure may also produce depression of the central nervous system and drowsiness. Few have reported skin irritation. It can be absorbed from the skin or when inhaled.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>D-LIMONENE</b>  | <p>Tumorigenic by RTECS criteria</p> <p>d-Limonene is readily absorbed by inhalation and swallowing. Absorption through the skin is reported to be lower than by inhalation. It is rapidly distributed to different tissues in the body, readily metabolized and eliminated, primarily through the urine. Limonene shows low acute toxicity by all three routes in animals. Limonene is a skin irritant in both experimental animals and humans.</p> <p>Monomethyltin chloride, thioglycolate esters, and tall oil ester reaction product:</p> <p>Monomethyltin trichloride (MMTC, CAS RN: 993-16-8), monomethyltin tris[2-ethylhexylmercaptoacetate (MMT (EHTG); MMT (2-EHMA), CAS RN: 57583-34-3), monomethyltin tris[isooctylmercaptoacetate (MMT (IOTG), CAS RN: 54849-38-6) and methyltin reverse ester tallate reaction product (TERP, CAS RNs: 201687-58-3, 201687-57-2, 68442-12-6, 151436-98-5) are considered one category of compounds for mammalian studies via the oral route. The justification for this category is based on structural similarities and the demonstrated rapid conversion of all of the esters to the MMTC when placed in simulated mammalian gastric contents [0.07M HCl] under physiological conditions. For the MMT (EHTG) &gt;90% conversion to MMTC occurred within 0.5 hours. For TERP, 68% of the monomethyltin portion of the compound was converted to MMTC within 1 hour.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>CITRAL</b>      | <p>- Produces maternal effects (oogenesis, ovaries, fallopian tube changes) and effects live-birth index.</p> <p>The terpenoid hydrocarbons are found in needle trees and deciduous plants. This category of chemicals shows very low acute toxicity. They are excreted in the urine. They are unlikely to cause genetic damage, but animal testing shows that they do cause increased rates of kidney cancer. No significant acute toxicological data identified in literature search.</p> <p>Epoxidation of double bonds is a common bioactivation pathway for alkenes. The allylic epoxides formed were found to be sensitizing. Research has shown that conjugated dienes in or in conjunction with a six-membered ring are prohaptenes, while related dienes containing isolated double bonds or an acrylic conjugated diene were weak or non-sensitising.</p> <p>A member or analogue of a group of aliphatic, linear alpha,beta-unsaturated aldehydes and structurally related substances. These substances are generally regarded as safe. They are found in flavouring substances in food and are rapidly absorbed and broken down in the body.</p> <p>for citral</p> <p>Citral is rapidly absorbed from the gastrointestinal tract. Much of an applied dermal dose is lost due to its extreme volatility, but the citral remaining on the skin was fairly well absorbed. Citral is rapidly metabolised and excreted as metabolites. Urine is the major route of elimination.</p> <p><b>Acute toxicity</b> of this chemical is low in rodents because the oral or dermal LD50 values were more than 1000 mg/kg. This chemical is irritating to skin and not irritating to eyes in rabbits.</p> <p>For dialdehydes:</p> <p>Dialdehydes are by-products of peroxidation of polyunsaturated lipids and commonly found in many foods or food-products. Both National Cancer Institute (NCI) and NTP have expressed great concern on the potential genotoxicity and carcinogenicity of dialdehydes. 2,4-Decadienal and 2,4-hexadienal are autooxidation products of polyunsaturated fatty acids.</p> <p>Several researchers have implied there could be a link between exposures to lipid peroxidation products in the diet and the development of human cancers. Lipid hydroperoxides have been shown to give rise to low intracellular levels of 2,4-decadienal and other alpha-beta-unsaturated aldehydes that are known to be reactive with DNA.</p> <p>Alpha,beta-unsaturated aldehydes and ketones are potentially genotoxic.</p> <p>It is believed that nucleophilic sites in DNA react through a 1,4-nucleophilic addition (Michael reaction) with alpha,beta-unsaturated carbonyl compounds.</p> <p>The flavour industry provided genotoxicity studies for the substance 4,5-epoxydec-2(trans)-enal. Based on these data, a European Food Safety Authority (EFSA) Panel concluded that 4,5-epoxydec-2(trans)-enal did not induce gene mutations in bacterial cells but was positive in an in vitro micronucleus assay, so, 4,5-epoxydec-2(trans)-enal is considered an in vitro genotoxic agent. The negative results obtained in an in vivo micronucleus assay cannot overrule the positive results of the in vitro</p> |

## Asaleo Care Tork Premium Airfreshener Mixed AI

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     | micronucleus assay with and without S9-mix due to the lack of demonstration of bone marrow exposure. Following this, the flavour industry has provided plasma analysis of a satellite group of rats treated with 4,5-epoxydec-2(trans)-enal in order to investigate the systemic exposure of animals in the in vivo micronucleus assay.<br>The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ETHANOL &amp; ISOPROPANOL</b>    | The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ISOPROPANOL &amp; CITRAL</b>     | Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ISOPROPANOL &amp; D-LIMONENE</b> | The substance is classified by IARC as Group 3:<br><b>NOT</b> classifiable as to its carcinogenicity to humans.<br>Evidence of carcinogenicity may be inadequate or limited in animal testing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>D-LIMONENE &amp; CITRAL</b>      | The following information refers to contact allergens as a group and may not be specific to this product.<br>Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions.<br>Adverse reactions to fragrances in perfumes and fragranced cosmetic products include allergic contact dermatitis, irritant contact dermatitis, sensitivity to light, immediate contact reactions, and pigmented contact dermatitis. Airborne and connubial contact dermatitis occurs. Contact allergy is a lifelong condition, so symptoms may occur on re-exposure. Allergic contact dermatitis can be severe and widespread, with significant impairment of quality of life and potential consequences for fitness for work.<br>If the perfume contains a sensitizing component, intolerance to perfumes by inhalation may occur.<br>Fragrance allergens act as haptens, which are small molecules that cause an immune reaction only when attached to a carrier protein. However, not all sensitizing fragrance chemicals are directly reactive, but some require previous activation. A prehapten is a chemical that itself causes little or no sensitization, but it is transformed into a hapten outside the skin by a chemical reaction (oxidation in air or reaction with light) without the requirement of an enzyme.<br>For prehapten, it is possible to prevent activation outside the body to a certain extent by different measures, for example, prevention of air exposure during handling and storage of the ingredients and the final product, and by the addition of suitable antioxidants. When antioxidants are used, care should be taken that they will not be activated themselves, and thereby form new sensitizers.<br>Prehapten: Most terpenes with oxidisable allylic positions can be expected to self-oxidise on air exposure. |

|                                          |   |                                 |   |
|------------------------------------------|---|---------------------------------|---|
| <b>Acute Toxicity</b>                    | ✗ | <b>Carcinogenicity</b>          | ✓ |
| <b>Skin Irritation/Corrosion</b>         | ✓ | <b>Reproductivity</b>           | ✗ |
| <b>Serious Eye Damage/Irritation</b>     | ✓ | <b>STOT - Single Exposure</b>   | ✓ |
| <b>Respiratory or Skin sensitisation</b> | ✓ | <b>STOT - Repeated Exposure</b> | ✗ |
| <b>Mutagenicity</b>                      | ✗ | <b>Aspiration Hazard</b>        | ✗ |

**Legend:** ✗ – Data either not available or does not fill the criteria for classification  
 ✓ – Data available to make classification

## SECTION 12 Ecological information

## Toxicity

| Asaleo Care Tork Premium Airfreshener Mixed AI | Endpoint      | Test Duration (hr) | Species                       | Value         | Source        |
|------------------------------------------------|---------------|--------------------|-------------------------------|---------------|---------------|
|                                                | Not Available | Not Available      | Not Available                 | Not Available | Not Available |
| ethanol                                        | Endpoint      | Test Duration (hr) | Species                       | Value         | Source        |
|                                                | EC50          | 72h                | Algae or other aquatic plants | 275mg/l       | 2             |
|                                                | EC50          | 48h                | Crustacea                     | 2mg/l         | 4             |
|                                                | EC50          | 96h                | Algae or other aquatic plants | <0.001mg/L    | 4             |
|                                                | LC50          | 96h                | Fish                          | 42mg/l        | 4             |
|                                                | EC50(ECx)     | 96h                | Algae or other aquatic plants | <0.001mg/L    | 4             |
| isopropanol                                    | Endpoint      | Test Duration (hr) | Species                       | Value         | Source        |
|                                                | EC50          | 72h                | Algae or other aquatic plants | >1000mg/l     | 1             |

Continued...

Asaleo Care Tork Premium Airfreshener Mixed AI

|            |                                                                                                                                                                                                                                                                                                                          |                    |                               |               |        |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------|---------------|--------|
|            | EC50                                                                                                                                                                                                                                                                                                                     | 48h                | Crustacea                     | 7550mg/l      | 4      |
|            | EC50                                                                                                                                                                                                                                                                                                                     | 96h                | Algae or other aquatic plants | >1000mg/l     | 1      |
|            | LC50                                                                                                                                                                                                                                                                                                                     | 96h                | Fish                          | >1400mg/l     | 4      |
|            | EC50(ECx)                                                                                                                                                                                                                                                                                                                | 24h                | Algae or other aquatic plants | 0.011mg/L     | 4      |
| d-limonene | Endpoint                                                                                                                                                                                                                                                                                                                 | Test Duration (hr) | Species                       | Value         | Source |
|            | EC50                                                                                                                                                                                                                                                                                                                     | 72h                | Algae or other aquatic plants | 0.214mg/l     | 2      |
|            | EC50                                                                                                                                                                                                                                                                                                                     | 48h                | Crustacea                     | 0.307mg/l     | 2      |
|            | LC50                                                                                                                                                                                                                                                                                                                     | 96h                | Fish                          | 0.46mg/l      | 2      |
|            | NOEC(ECx)                                                                                                                                                                                                                                                                                                                | 0h                 | Algae or other aquatic plants | <0.05-1.5mg/l | 4      |
| citral     | Endpoint                                                                                                                                                                                                                                                                                                                 | Test Duration (hr) | Species                       | Value         | Source |
|            | LC50                                                                                                                                                                                                                                                                                                                     | 96h                | Fish                          | 4.6mg/l       | 1      |
|            | EC50                                                                                                                                                                                                                                                                                                                     | 72h                | Algae or other aquatic plants | 16mg/l        | 1      |
|            | EC50                                                                                                                                                                                                                                                                                                                     | 48h                | Crustacea                     | 6.8mg/l       | 2      |
|            | EC50                                                                                                                                                                                                                                                                                                                     | 96h                | Algae or other aquatic plants | 19mg/l        | 1      |
|            | EC10(ECx)                                                                                                                                                                                                                                                                                                                | 96h                | Algae or other aquatic plants | 1.9mg/l       | 1      |
| Legend:    | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data |                    |                               |               |        |

On the basis of available evidence concerning either toxicity, persistence, potential to accumulate and or observed environmental fate and behaviour, the material may present a danger, immediate or long-term and /or delayed, to the structure and/ or functioning of natural ecosystems.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**DO NOT** discharge into sewer or waterways.

Persistence and degradability

| Ingredient  | Persistence: Water/Soil     | Persistence: Air            |
|-------------|-----------------------------|-----------------------------|
| ethanol     | LOW (Half-life = 2.17 days) | LOW (Half-life = 5.08 days) |
| isopropanol | LOW (Half-life = 14 days)   | LOW (Half-life = 3 days)    |
| d-limonene  | HIGH                        | HIGH                        |
| citral      | LOW                         | LOW                         |

Bioaccumulative potential

| Ingredient  | Bioaccumulation        |
|-------------|------------------------|
| ethanol     | LOW (LogKOW = -0.31)   |
| isopropanol | LOW (LogKOW = 0.05)    |
| d-limonene  | HIGH (LogKOW = 4.8275) |
| citral      | LOW (LogKOW = 3.4453)  |

Mobility in soil

| Ingredient  | Mobility          |
|-------------|-------------------|
| ethanol     | HIGH (KOC = 1)    |
| isopropanol | HIGH (KOC = 1.06) |
| d-limonene  | LOW (KOC = 1324)  |
| citral      | LOW (KOC = 147.7) |

SECTION 13 Disposal considerations

Waste treatment methods

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product / Packaging disposal | <ul style="list-style-type: none"><li>▶ <b>DO NOT</b> allow wash water from cleaning or process equipment to enter drains.</li><li>▶ It may be necessary to collect all wash water for treatment before disposal.</li><li>▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li><li>▶ Where in doubt contact the responsible authority.</li></ul> |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Asaleo Care Tork Premium Airfreshener Mixed AI

- ▶ Consult State Land Waste Management Authority for disposal.
- ▶ Discharge contents of damaged aerosol cans at an approved site.
- ▶ Allow small quantities to evaporate.
- ▶ **DO NOT** incinerate or puncture aerosol cans.

SECTION 14 Transport information

Labels Required

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
|                  |  |
| Marine Pollutant |  |
| HAZCHEM          | Not Applicable                                                                    |

Land transport (ADG)

|                              |                           |                        |  |
|------------------------------|---------------------------|------------------------|--|
| UN number or ID number       | 1950                      |                        |  |
| UN proper shipping name      | AEROSOLS                  |                        |  |
| Transport hazard class(es)   | Class                     | 2.1                    |  |
|                              | Subsidiary risk           | Not Applicable         |  |
| Packing group                | Not Applicable            |                        |  |
| Environmental hazard         | Environmentally hazardous |                        |  |
| Special precautions for user | Special provisions        | 63 190 277 327 344 381 |  |
|                              | Limited quantity          | 1000ml                 |  |

Air transport (ICAO-IATA / DGR)

|                              |                                                           |                |  |
|------------------------------|-----------------------------------------------------------|----------------|--|
| UN number                    | 1950                                                      |                |  |
| UN proper shipping name      | Aerosols, flammable                                       |                |  |
| Transport hazard class(es)   | ICAO/IATA Class                                           | 2.1            |  |
|                              | ICAO / IATA Subrisk                                       | Not Applicable |  |
|                              | ERG Code                                                  | 10L            |  |
| Packing group                | Not Applicable                                            |                |  |
| Environmental hazard         | Environmentally hazardous                                 |                |  |
| Special precautions for user | Special provisions                                        | A145 A167 A802 |  |
|                              | Cargo Only Packing Instructions                           | 203            |  |
|                              | Cargo Only Maximum Qty / Pack                             | 150 kg         |  |
|                              | Passenger and Cargo Packing Instructions                  | 203            |  |
|                              | Passenger and Cargo Maximum Qty / Pack                    | 75 kg          |  |
|                              | Passenger and Cargo Limited Quantity Packing Instructions | Y203           |  |
|                              | Passenger and Cargo Limited Maximum Qty / Pack            | 30 kg G        |  |

Sea transport (IMDG-Code / GGVSee)

|                            |                |                |  |
|----------------------------|----------------|----------------|--|
| UN number                  | 1950           |                |  |
| UN proper shipping name    | AEROSOLS       |                |  |
| Transport hazard class(es) | IMDG Class     | 2.1            |  |
|                            | IMDG Subrisk   | Not Applicable |  |
| Packing group              | Not Applicable |                |  |

Asaleo Care Tork Premium Airfreshener Mixed AI

|                              |                    |                            |
|------------------------------|--------------------|----------------------------|
| Environmental hazard         | Marine Pollutant   |                            |
| Special precautions for user | EMS Number         | F-D, S-U                   |
|                              | Special provisions | 63 190 277 327 344 381 959 |
|                              | Limited Quantities | 1000 ml                    |

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name | Group         |
|--------------|---------------|
| ethanol      | Not Available |
| isopropanol  | Not Available |
| d-limonene   | Not Available |
| citral       | Not Available |

Transport in bulk in accordance with the IGC Code

| Product name | Ship Type     |
|--------------|---------------|
| ethanol      | Not Available |
| isopropanol  | Not Available |
| d-limonene   | Not Available |
| citral       | Not Available |

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

|                                                                                             |                                                                                                                                |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| ethanol is found on the following regulatory lists                                          |                                                                                                                                |
| Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals                | Australian Inventory of Industrial Chemicals (AIIC)                                                                            |
| isopropanol is found on the following regulatory lists                                      |                                                                                                                                |
| Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals                | International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic |
| Australian Inventory of Industrial Chemicals (AIIC)                                         |                                                                                                                                |
| d-limonene is found on the following regulatory lists                                       |                                                                                                                                |
| Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals                | International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic |
| Australian Inventory of Industrial Chemicals (AIIC)                                         |                                                                                                                                |
| citral is found on the following regulatory lists                                           |                                                                                                                                |
| Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals                | Australian Inventory of Industrial Chemicals (AIIC)                                                                            |
| Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 |                                                                                                                                |

National Inventory Status

| National Inventory                              | Status                                        |
|-------------------------------------------------|-----------------------------------------------|
| Australia - AIIC / Australia Non-Industrial Use | Yes                                           |
| Canada - DSL                                    | Yes                                           |
| Canada - NDSL                                   | No (ethanol; isopropanol; d-limonene; citral) |
| China - IECSC                                   | Yes                                           |
| Europe - EINEC / ELINCS / NLP                   | Yes                                           |
| Japan - ENCS                                    | Yes                                           |
| Korea - KECI                                    | Yes                                           |

## Asaleo Care Tork Premium Airfreshener Mixed AI

| National Inventory  | Status                                                                                                                                                                                                       |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| New Zealand - NZIoC | Yes                                                                                                                                                                                                          |
| Philippines - PICCS | Yes                                                                                                                                                                                                          |
| USA - TSCA          | Yes                                                                                                                                                                                                          |
| Taiwan - TCSI       | Yes                                                                                                                                                                                                          |
| Mexico - INSQ       | Yes                                                                                                                                                                                                          |
| Vietnam - NCI       | Yes                                                                                                                                                                                                          |
| Russia - FBEPH      | Yes                                                                                                                                                                                                          |
| <b>Legend:</b>      | <p>Yes = All CAS declared ingredients are on the inventory</p> <p>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.</p> |

## SECTION 16 Other information

|               |            |
|---------------|------------|
| Revision Date | 10/03/2023 |
| Initial Date  | 08/12/2020 |

## SDS Version Summary

| Version | Date of Update | Sections Updated                                                      |
|---------|----------------|-----------------------------------------------------------------------|
| 3.1     | 10/12/2021     | Classification change due to full database hazard calculation/update. |
| 4.1     | 10/03/2023     | Classification change due to full database hazard calculation/update. |

## Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

## Definitions and abbreviations

PC - TWA: Permissible Concentration-Time Weighted Average  
 PC - STEL: Permissible Concentration-Short Term Exposure Limit  
 IARC: International Agency for Research on Cancer  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 STEL: Short Term Exposure Limit  
 TEEL: Temporary Emergency Exposure Limit,  
 IDLH: Immediately Dangerous to Life or Health Concentrations  
 ES: Exposure Standard  
 OSF: Odour Safety Factor  
 NOAEL :No Observed Adverse Effect Level  
 LOAEL: Lowest Observed Adverse Effect Level  
 TLV: Threshold Limit Value  
 LOD: Limit Of Detection  
 OTV: Odour Threshold Value  
 BCF: BioConcentration Factors  
 BEI: Biological Exposure Index  
 AIIC: Australian Inventory of Industrial Chemicals  
 DSL: Domestic Substances List  
 NDSL: Non-Domestic Substances List  
 IECSC: Inventory of Existing Chemical Substance in China  
 EINECS: European INventory of Existing Commercial chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 NLP: No-Longer Polymers  
 ENCS: Existing and New Chemical Substances Inventory  
 KECl: Korea Existing Chemicals Inventory  
 NZIoC: New Zealand Inventory of Chemicals  
 PICCS: Philippine Inventory of Chemicals and Chemical Substances  
 TSCA: Toxic Substances Control Act  
 TCSI: Taiwan Chemical Substance Inventory  
 INSQ: Inventario Nacional de Sustancias Químicas  
 NCI: National Chemical Inventory

**Asaleo Care Tork Premium Airfreshener Mixed AI**

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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