1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

· **Trade name:** Tower Air Freshener

Registration number: No available data.

UFI number: No available data.

Other means of identification: No available data.

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

Application of the substance/ mixture: for space deodorizing.

Uses advised against: No available data.

Reason why users advised against: No available data.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

NAME: CHEMSOLVE PTY LTD.

ADDRESS: 3 Warin Avenue Pemulwuy NSW 2145 Australia

TEL: +61 435 313 535

EMAIL: dhaval@chemsolve.com.au

POISION INFORMATION CONTACT – 13 11 26

2. Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to regulation (EC) 1272/2008:

Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Skin Sens. 1, H317	Calculation method
Eye Irrit. 2, H319	Calculation method
Aquatic Chronic 3, H412	Calculation method

2.1.2 Additional information: For full text of Hazard- and EU Hazard-statements: see SECTION 16**.**

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008:

The product is labelled according to Regulation (EC) No 1272/2008.

Hazard pictograms:

GHS07

· **Signal word:**

Warning

· **Hazard-determining components of labelling:**

Cinnamaldehyde; Linalool

· **Hazard statements:**
H317: May cause an allergic skin reaction
H319: Causes serious eye irritation
H412: Harmful to aquatic life with long lasting effects

· **Precautionary statement:**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.

· **Supplemental label elements:** Not applicable

· **2.3 Other hazards**

None ingredients (≥0.1%) identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

3. Composition/information on ingredients

· **3.1 Substance**

Not applicable

· **3.2 Mixtures**

· **Description of the mixture: Tower Air Freshener (Cucumber Melon)**

Ingredients:

Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE
Ethylene vinyl acetate (EVA)	24937-78-8	-	607-457-0	79.5	None	-
Benzyl benzoate	120-51-4	607-085-00-9	204-402-9	7.5-9	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE(oral)= 1900 mg/kg M=1
Decanal / Decyl aldehyde	112-31-2	-	203-957-4	2.5-3	Eye Irrit. 2, H319 Aquatic Chronic 3, H412	-
B.P Terpineol	10482-56-1	-	233-986-8	1.25-2	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-
2-Phenoxyethanol	122-99-6	603-098-00-9	204-589-7	1.25-1.5	Acute Tox. 4, H302 Eye Irrit. 2, H319	ATE(oral)= 1260mg/kg Eye Irrit. 2, H319: C≥20%

Tricyclodecenyl acetate	5413-60-5	-	226-501-6	1.25-1.5	None	-
Isobornyl acetate	125-12-2	-	204-727-6	1.25-2.5	None	-
Cinnamaldehyde	104-55-2	-	203-213-9	1-1.25	Acute Tox. 4, H312 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319	ATE (dermal)= 1100 mg/kg
Pigment	-	-	-	0.5	-	-
Linalool	78-70-6	603-235-00-2	201-134-4	0.25-1.25	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319	-
Leaf alcohol	928-96-1	-	213-192-8	0.25-1.25	Flam. Liq. 3, H226 Eye Irrit. 2, H319	-
o-tert-Butylcyclohexyl acetate	88-41-5	-	201-828-7	0.25-1.25	Aquatic Chronic 2, H411	-
Amylcinnamaldehyde	122-40-7	-	204-541-5	0.025-0.25	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-

Additional information:
Full text of H- and EUH-phrases: see SECTION 16

4. First aid measures

4.1 Description of first aid measures

General advice:

If medical advice is needed, have product container or label at hand.

After inhalation:

Supply with fresh air.

Get medical attention if you feel unwell.

After skin contact:

Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue risining.

If eye irritation persists: Get medical advice/attention.

After swallowing:

Rinse mouth.

Call a POISON CENTER/doctor if you feel unwell.

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

May cause an allergic skin reaction. Causes serious eye irritation; May damage fertility.

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

Treat according to symptom, there is not known specific medicine.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Use CO_2, chemical powder, water spray or alcohol resistant foam to extinguish.

Unsuitable extinguishing media:

Water with full jet.

5.2 Special hazards arising from the substance or mixture:

May produce allergic / irritant gas in air under fire.

5.3 Advice for firefighter's

Protective equipment:

Wear an approved positive pressure self-contained breathing apparatus (Comply with EN 133).

6. Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

· **6.1.1 For non-emergency**

Personnel Protective equipment:

Protective gloves and respiration protection

· **Emergency procedures:** Evacuate immediately; Avoid breathing gas; Avoid contact with skin and eyes; Avoid release to the environment.

.**6.1.2 For emergency responders**

Personal protective equipment:

Protective gloves and respiration protection.

· **6.2 Environmental precautions:**

Prevent further leakage or spillage if safe to do so.

Prevent spillage from entering drains, sewer, basement or confined areas.

If the spillage contaminates rivers, lakes or drains inform respective authorities.

· **6.3 Methods and material for containment and cleaning up:**

Sweep up without creating dust and shovel into suitable containers for disposal. Ensure good ventilation.

Dispose contaminated material as waste according to section 13.

· **6.4 Reference to other sections:**

See section 7 for information on safe handing.

See section 8 for information on personal protection equipment.

See section 13 for disposal in formation.

7. Handling and storage

· **7.1 Precautions for safe handling:** Read carefully and follow all instructions.

· Obtain special instructions before use; Ensure adequate ventilation at workplace; Wear protective equipments; Avoid breathing dust; Avoid contact with eyes and skin; Avoid release to the environment.

·

· **Information about fire and explosion protection:** Normal measures for preventive fire protection.

· **7.2 Conditions for safe storage, including any non-compatibility**

· **Requirements to be met by storerooms and receptacles:** Store in a cool and well-ventilated place.

· **Information about storage in one common storage facility:** Keep out of reach of children.

· **Further information about storage conditions:** Store locked up.

· **Storage class:** 13.

· **7.3 Specific end use(s):**See section 1.2.

8 Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

Country	Limit value - Eight hours	Limit value - Short term
122-99-6 2-Phenoxyethanol		
Austria	20ppm; 110 mg/m³	20ppm; 110 mg/m³
Finland	20ppm; 110 mg/m³	50ppm; 290 mg/m³15 minutes average value
Germany (AGS)	1ppm; 5.7 mg/m³Inhalable aerosol and vapour	1ppm;5.7 mg/m³Inhalable aerosol and vapour; 15 minutes reference period
Germany (DFG)	1ppm; 5.7 mg/m³Inhalable aerosol and vapour	1ppm;5.7 mg/m³Inhalable aerosol and vapour; 15 minutes reference period
Poland	230mg/m3	-

DNELs:

DNEL type		**DNEL worker value**	**DNEL consumer value**
120-51-4 Benzyl benzoate			
Systemic effects	Long-term, inhalation exposure	5.1 mg/m³	1.25 mg/m³
	Acute /short term, inhalation exposure	102 mg/m³	-
	Long-term, dermal exposure	2.6 mg/kg bw/day	1.3 mg/kg bw/day
	Long-term, oral exposure	-	400 µg/kg bw/day
	Acute /short term, oral exposure	-	78 mg/kg bw/day
122-99-6 2-Phenoxyethanol			
Systemic effects	Long-term, inhalation exposure	8.07 mg/m³	2.41 mg/m³
	Long-term, dermal exposure	20.83 mg/kg bw/day	10.42 mg/kg bw/day
	Long-term, oral exposure	-	9.23 mg/kg bw/day
	Acute /short term, oral exposure	-	9.23 mg/kg bw/day
Local effects	Long-term, inhalation exposure	8.07 mg/m³	2.41 mg/m³
78-70-6 Linalool			
Systemic effects	Long-term, inhalation exposure	2.8 mg/m³	700 µg/m³
	Acute /short term, inhalation exposure	16.5 mg/m³	4.1 mg/m³
	Long-term, dermal exposure	2.5 mg/kg bw/day	1.25 mg/kg bw/day
	Acute /short term, dermal exposure	5 mg/kg bw/day	2.5 mg/kg bw/day
	Long-term, oral exposure	-	200 µg/kg bw/day
	Acute /short term, oral exposure	-	1.2 mg/kg bw/day
Local effects	Long-term, dermal exposure	3 mg/cm²	1.5 mg/cm²
	Acute /short term, dermal exposure	3 mg/cm²	1.5 mg/cm²

PNECs

PNEC type	Value
120-51-4 Benzyl benzoate	
Freshwater	16.8 µg/L
Marine water	1.68 µg/L
Sewage treatment plant (STP)	100 mg/L
Sediment (freshwater)	10.66 mg/kg sediment dw
Sediment (marine water)	1.07 mg/kg sediment dw
122-99-6 2-Phenoxyethanol	
Freshwater	943 µg/L
Intermittent releases (freshwater)	3.44 mg/L
Marine water	94.3 µg/L
Sewage treatment plant (STP)	24.8 mg/L
Sediment (freshwater)	7.237 mg/kg sediment dw
Sediment (marine water)	723.7 µg/kg sediment dw
78-70-6 Linalool	
Freshwater	200 µg/L
Intermittent releases (freshwater)	2 mg/L
Marine water	20 µg/L
Sewage treatment plant (STP)	10 mg/L
Sediment (freshwater)	2.22 mg/kg sediment dw
Sediment (marine water)	222 µg/kg sediment dw

· **Additional information:** The lists valid during the marking were used as a basis.

· **8.2 Exposure controls**

· **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**

· **Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and at the end of work. Take off contaminated clothing and wash it before reuse. See section 7 for information about design of technical facilities.

· **Personal protective equipment**

· **Eye and face protection:**

Safety glasses

Protective goggles with side-shields.

· **Skin protection**

· **Hand protection:**

Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness> 0.3mm; breakthrough times up to 480 minutes).

· **Other skin protection:**

Gauntlets, boots, bodysuit are recommended.

· **Respiration protection:**

Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.

· **Thermal hazards:**

· The gauntlets, boots, bodysuit and *other personal protective equipment must be flame retardant and no heat-conducting.*

· **Environmental exposure controls:**

· Control measures must be made in accordance with Community environmental protection legislation.

9. Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· Physical state	Solid
· Color	Pink & Green
· Odor & Odor threshold	Cucumber Melon & Kiwi Grapefruit
· Melting point/freezing point (or softening point/range)	Not determined
· Boiling point or initial boiling point and boiling range	Not determined
· Flammability	Not flammable solid.
· Lower and upper explosion limit	Not determined
· Flash point	Not applicable
· Auto-ignition temperature	Not applicable
· Decomposition temperature	Not determined
· pH	Not determined, mixture is insoluble in water.
· Kinematic viscosity (mm2/s)	Not determined
· Solubility	Insoluble in water
· Partition coefficient n-octanol/water (log value)	Not determined
· Vapor pressure	Not determined
· Density and/or relative density	Not determined
· Relative vapor density	Not determined
· Particle characteristics	Not applicable
· **9.2 Other information**	
· **9.2.1 Information with regard to physical hazard classes:**	
· Explosives	Not determined
· Flammable gases	Not applicable
· Aerosols	Not applicable
· Oxidising gases	Not applicable
· Gases under pressure	Not applicable
· Flammable liquids	Not applicable
· Flammable solids	Not applicable
· Self-reactive substances and mixtures	Not applicable
· Pyrophoric liquids	Not applicable
· Pyrophoric solids	Not applicable

· Self-heating substances and mixtures	Not applicable
· Substances and mixtures, which emit flammable gases in contact with water	Not applicable
· Oxidizing liquids	Not applicable
· Oxidizing solids	Not applicable
· Organic peroxides	Not applicable
· Corrosive to metals	Not applicable
· Desensitised explosives	Not applicable
· **9.2.2 Other safety characteristics**	
· Mechanical sensitivity	Not applicable
· Self-accelerating polymerisation temperature	Not applicable
· Formation of explosible dust/air mixtures	Not applicable
· Acid/alkaline reserve	Not applicable
· Evaporation rate	Not applicable
· Miscibility	Not applicable
· Conductivity	Not applicable
· Corrosiveness	Not applicable
· Gas group	Not applicable
· Redox potential	Not applicable
· Radical formation potential	Not applicable
· Photocatalytic properties	Not applicable
· Other physical and chemical parameters	Not determined

10. Stability and reactivity

· **10.1 Reactivity:** The product is no-reactive under normal conditions of use, storage and transport.
· **10.2 Chemical stability:** Under storage at normal ambient temperatures, the product is stable.
· **10.3 Possibility of hazardous reactions:** No known hazardous reaction.
· **10.4 Conditions to avoid:** High temperature and flame.
· **10.5 Incompatible materials:** Strong bases, strong oxidizing agents.
· **10.6 Hazardous decomposition products:** Does not decompose when used for intended uses.

11. Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity:** Based on available data, the classification criteria are not met.

ATEmix (oral)	>	2000mg/kg
ATE_{mix} (dermal)	>	2000mg/kg
ATE_{mix} (inhal.)	>	1.5mg/l (mist)

LD50/LC50 values relevant for classification:

120-51-4 Benzyl benzoate		
Rat	LD50-oral	1900 mg/kg
	LD50-skin	4mL/kg
Mouse	LD50-oral	1400uL/kg
Rabbit	LD50-oral	1680mg/kg
	LD50-skin	4000mg/kg
122-99-6 2-Phenoxyethanol		

Mouse	LD50-oral	933mg/kg
Rabbit	LD50-skin	5mL/kg
Rat	LD50-oral LD50-skin	1260mg/kg 14422mg/kg
78-70-6 Linalool		
Rabbit	LD50-skin	5610mg/kg
Rat	LD50-oral LD50-skin	2790mg /kg 5610mg/kg
Mouse	LD50-oral	3000mg/kg
Remark: All the above data are from literature.		

· ***Skin corrosion/irritation:*** *Based on available data, the classification criteria are not met.*

· **Serious eyes damage/ irritation:** Causes serious eye irritation.

· **Respiratory or skin sensitization:** May cause an allergic skin reaction.

· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

· **Carcinogenicity:** Based on available data, the classification criteria are not met.

· **Reproductive toxicity:** May damage fertility. Suspected of damaging the unborn child.

· **Summary of evaluation of the CMR properties:** May damage fertility. Suspected of damaging the unborn child.

· **STOT-single exposure:** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

· **Aspiration hazard:** Based on available data, the classification criteria are not met.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties:

None ingredient (≥0.1%) is considered to have endocrine-disrupting properties with respect to humans as it meets the criteria set out in section A of Regulation (EU) No 2017/2100.

Other information: No known other relevant information on adverse health effects.

12. Ecological information

12.1 Toxicity:

LC50/EC50/NOEC values relevant for classification:	
120-51-4 Benzyl benzoate	
Long–term toxicity to aquatic invertebrates	NOEC (21 days) 258 - 970 µg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 475 µg/L NOEC (72 h) 247 µg/L
122-99-6 2-Phenoxyethanol	
Short–term toxicity to fish	LC50 (4 days) 344 mg/L NOEC (4 days) 100 mg/L
Long–term toxicity to fish	NOEC (34 days) 23mg/L
Short–term toxicity to aquatic invertebrates	EC50 (48 h) 488 mg/L
Long–term toxicity to aquatic invertebrates	NOEC (21 days) 9.43 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 443 mg/L NOEC (72 h) 159 mg/L
Toxicity to microorganisms	EC50 (17 h) 883.3 mg/L
78-70-6 Linalool	
Short–term toxicity to fish	LC50 (4 days) 27.8 mg/L
Short–term toxicity to aquatic invertebrates	EC50 (48 h) 59 mg/L NOEC (48 h) 25 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (4 days) 88.3 - 156.7 mg/L
Toxicity to microorganisms	EC50 (3 h) 100 mg/L

· **12.2 Persistence and degradability:**

120-51-4	Benzyl benzoate	Readily biodegradable in water
122-99-6	2-Phenoxyethanol	Readily biodegradable in water
78-70-6	Linalool	Readily biodegradable in water

· **12.3 Bio-accumulative potential:**

120-51-4	Benzyl benzoate	Log Pow = 3.97 at 25 °C
122-99-6	2-Phenoxyethanol	Log Pow= 1.107 - 1.2 at 23 °C
78-70-6	Linalool	Log Pow = 2.84 - 2.9 at 20 - 25 °C

· **12.4 Mobility in soil:**

122-99-6	2-Phenoxyethanol	Log Koc= 40.74 at 20 °C; Henrys law constant= 0.002 Pa.m³/mol at 20 °C

· **12.5 Results of PBT and vPvB assessment:** No information available.

· **12.6 Endocrine disrupting properties:** None ingredient (≥0.1%) does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

· **12.7 Other adverse effects:** No known other adverse effects**.**

· **12.8 Additional ecological information**

· **General notes:** WGK2 (German Regulation) (self-assessment): Hazard to waters. Do not allow the product to reach ground water, water course or sewage system.

13. Disposal consideration

· **13.1 Waste treatment methods**
· **Recommendation:** Must not be disposed together with household garbage.

· **13.2 Un-cleaned packaging**
· **Recommendation:** Dispose of contents/container in according to the local/regional/nati*onal/ international regulation.*

14. Transport Information

· **14.1 UN-Number** **ADR, RID, ADN, IMDG, IATA**	Not regulated as dangerous transport goods, not applicable
· **14.2 UN proper shipping name** **ADR, RID, ADN, IMDG, IATA**	Void
· **14.3 Transport hazard class (es)** **ADR, RID, ADN, IMDG, IATA** **Class** **Label**	 Void Void
· **14.4 Packing group** **ADR, RID, ADN, IMDG, IATA**	Void
· **14.5 Marine pollution**	No
· **14.6 Special precautions for user** · **Danger code (Kemler)** · **EMS number**	Void Void Void
· **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**	Void

15. Regulatory information

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

· MAK (German Maximum Workplace Concentration):

None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances-ANNEX I:

None of the ingredients is listed.

· Seveso category:

Not applicable

· Qualifying quantity (tonnes) for the application of lower-tier requirements:

Not applicable

· Qualifying quantity (tonnes) for the application of upper-tier requirements:

Not applicable.

· National regulations.

· Water hazard class:

WGK2 (German Regulation) (self-assessment): Hazard to waters.

· Other regulations, limitations, and prohibitive regulations

· SVHC Candidate list of REACH Regulation Annex XIV Authorization:

None of the ingredients is listed.

REACH Regulation Annex XVII Restriction: None of the ingredients is listed.

REACH Regulation Annex XIV Authorization List: None of the ingredients is listed.

15.2 Chemical safety assessment:

A Chemical Safe Assessment has not been carried out.

16 Other information

16.1 Indication of changes:

None.

16.2 Abbreviations and acronyms:

16.2 Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

vPvB: very persistent and very bio accumulative

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration

Flam. Liq. 3: Flammable liquids, hazard category 3

Acute Tox. 4: Acute toxicity, hazard category 4

Skin Irrit.2: Skin corrosion/irritation, hazard category 2

Skin Sens. 1: Respiratory or skin sensitization, hazard category 1

Skin Sens. 1B: Respiratory or skin sensitization, hazard category 1B

Eye Irrit. 2: Eye damage/irritation, hazard category 2

Repr. 1B: Reproductive toxicity, hazard category 1B

Aquatic Acute 1: Short-term (acute) aquatic hazard, hazard category 1

Aquatic Chronic 2: Long-term (chronic) aquatic hazard, hazard category 2

Aquatic Chronic 3: Long-term (chronic) aquatic hazard, hazard category 3

16.3 Key literature references and sources for data:

https://echa.europa.eu/
https://chem.nlm.nih.gov/
https://www.osha.gov/
http://www.unece.org/
http://www.imo.org/
https://www.dguv.de/
https://epa.govt.nz/
http://www.ilo.org/
https://www.phmsa.dot.gov/

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:
See SECTION 2.1 (classification).

16.5 Relevant H- and EUH-phrases (number and full text):

H226 Flammable liquid and vapour

H302 Harmful if swallowed

H312 Harmful in contact with skin

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H400 Very toxic to aquatic life

H411 Toxic to aquatic life with long lasting effects

H412 Harmful to aquatic life with long lasting effects

16.6 Training advice:

Workers must be educated and trained so they can read SDS and understand the hazards, and know how to work safely with hazardous products.

16.7 Further information:

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.

DISCLAIMER OF LIABILITY:

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****

End of safety data sheet