

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	Citrus.
CAS No.	Mixture.
EINECS No.	Mixture.
REACH Registration No.	None assigned.

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

Identified use(s)	Air freshener.
Uses advised against	None known.

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Regulation (EC) No. 1272/2008 (CLP)

Skin Irrit. 2; Causes skin irritation.
Eye Irrit. 2; Causes serious eye irritation.
Aquatic Chronic 2; Toxic to aquatic life with long lasting effects.

2.2 Label elements

Product Name	According to Regulation (EC) No. 1272/2008 (CLP)
Hazard Pictogram(s)	Bower Products – Citrus.



GHS07



GHS09

Signal Word(s)	Warning.
Hazard Statement(s)	H315: Causes skin irritation. H319: Causes serious eye irritation. H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)	P280: Wear protective gloves/eye protection. P302+P352: IF ON SKIN: Wash with plenty of water. P332+P313: If skin irritation occurs: Get medical advice/attention. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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P337+P313: If eye irritation persists: Get medical advice/attention.

P273: Avoid release to the environment.

2.3 Other hazards

None.

2.4 Additional Information

For full text of H/P statements see section 16.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

EC Classification No. 1272/2008

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
2,6-dimethyloct-7-en-2-ol	1 - 10	18479-58-8	242-362-4	01-2119457274-37-XXXX	GHS07, Skin Irrit. 2; H315, Eye Irrit. 2; H319
2,6-di-tert-butyl-p-cresol	1 - 10	128-37-0	204-881-4	01-2119555270-46-XXXX	GHS09, Aquatic Acute 1; H400, Aquatic Chronic 1; H410
2-phenylethanol	< 5	60-12-8	200-456-2	01-2119963921-31-XXXX	GHS07, Acute Tox. 4; H302, Eye Irrit. 2; H319
Decanal	< 5	112-31-2	203-957-4	01-2119967771-26-XXXX	GHS07, Eye Irrit. 2; H319, Aquatic Chronic 3; H412
Tricyclo[5.2.1.0 ^{2,6}]dec-4-en-8-yl acetate	< 5	2500-83-6	219-700-4	None assigned	Aquatic Chronic 3; H412
Octanal	< 5	124-13-0	204-683-8	01-2119638274-38-XXXX	GHS02, Flam. Liq. 3; H226, GHS07, Skin Irrit. 2; H315, Eye Irrit. 2; H319, GHS09, Aquatic Chronic 2; H411
Bornan-2-one	< 5	76-22-2	200-945-0	01-2119966156-31-XXXX	GHS02, Flam. Sol. 2; H228, GHS07, Acute Tox. 4; H302, H332, GHS08, STOT SE 2, H371
Allyl (3-methylbutoxy)acetate	< 5	67634-00-8	266-803-5	None assigned	GHS07, Acute Tox. 4; H302, Skin Irrit. 2; H315
Citral	< 5	5392-40-5	226-394-6	01-2119462829-23-XXXX	GHS07, Skin Irrit. 2; H315, Eye Irrit. 2; H319, Skin Sens. 1B, H317
(R)-p-mentha-1,8-diene	< 1	5989-27-5	227-813-5	01-2119529223-47-XXXX	GHS02, Flam. Liq. 3; H226, GHS07, Skin Irrit. 2; H315, Skin Sens. 1, H317, GHS09, Aquatic Acute 1; H400, Aquatic Chronic 1; H410
Geraniol	< 1	106-24-1	203-377-1	01-2119552430-49-XXXX	GHS05, Eye Dam. 1; H318, GHS07, Skin Irrit. 2; H315, Skin Sens. 1, H317
1-methoxy-2-propanol	< 0.1	107-98-2	203-539-1	01-2119457435-35-XXXX	GHS02, Flam. Liq. 3; H226, GHS07, STOT SE 3; H336

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3.2 Additional Information

For full text of H/P statements see section 16.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Wash out mouth with water. Obtain medical attention if ill effects occur.

Ingestion

4.2 Most important symptoms and effects, both acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically..

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media

Extinguish with carbon dioxide, dry chemical, foam or waterspray.

Unsuitable Extinguishing Media

Water jet spray.

5.2 Special hazards arising from the substance or mixture

Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide.

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear protective gloves/eye protection.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Use vacuum equipment for collecting spilt materials, where practicable. Collect spillage. Transfer to a container for disposal.

6.4 Reference to other sections

See Also Section: 8, 13.

Citrus

7. SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Provide adequate ventilation. Avoid contact with skin and eyes. Wear protective gloves/eye protection. Wash thoroughly after handling.
- 7.2 Conditions for safe storage, including any incompatibilities** Keep in a cool, well ventilated place.
- Storage Temperature Ambient.
- Storage Life Stable under normal conditions.
- Incompatible materials Strong acid, Strong base, Oxidizing agents.
- 7.3 Specific end use(s)** Air freshener.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL mg/m ³)	Note
1-methoxy-2-propanol	107-98-2	100	375	150	560	WEL
2,6-di-tert-butyl-p-cresol	128-37-0	-	10	-	-	WEL

WEL: Workplace Exposure Limit (UK HSE EH40)

8.1.2 Biological limit value

Not established.

8.1.3 PNECs and DNELs

Not established.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation.

8.2.2 Personal protection equipment

Eye/face protection



Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)



Wear protective gloves.

Respiratory protection



No personal respiratory protective equipment normally required.

Thermal hazards

Not applicable.

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

Citrus

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Solid.
Colour	Off-white.
Odour	Lemon-like.
Odour Threshold	Not established.
pH	Not available.
Melting Point/Freezing Point	57°C
Initial boiling point and boiling range	Not available.
Flash Point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not applicable.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information

None.

10. SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Stable under normal conditions.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	No hazardous reaction known if used for its intended purpose.
10.4	Conditions to avoid	Heat and direct sunlight.
10.5	Incompatible materials	Strong acid, Strong base, Oxidizing agents.
10.6	Hazardous Decomposition Product(s)	No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Mixtures

Acute toxicity	Low acute toxicity.
Irritation	Causes skin irritation. Causes serious eye irritation.
Corrosivity	Not classified.
Sensitisation	It is not a skin sensitiser.
Repeated dose toxicity	None anticipated.
Carcinogenicity	No evidence of carcinogenicity.
Mutagenicity	There is no evidence of mutagenic potential.
Toxicity for reproduction	None anticipated.

11.2 Other information

None.

Citrus

12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Toxic to aquatic life with long lasting effects.
12.2	Persistence and degradability	Part of the components are biodegradable. The product is unlikely to persist in the environment.
12.3	Bioaccumulative potential	The product has low potential for bioaccumulation.
12.4	Mobility in soil	Soluble in water. The product is predicted to have high mobility in soil.
12.5	Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6	Other adverse effects	None known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	Dispose at suitable refuse site.
13.2	Additional Information	Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

14. SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

14.1	UN number	Not applicable.
14.2	UN Proper Shipping Name	Not applicable.
14.3	Transport hazard class(es)	Not applicable.
14.4	Packing Group	Not applicable.
14.5	Environmental hazards	Not applicable.
14.6	Special precautions for user	Not applicable.
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
14.8	Additional Information	None.

15. SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU regulations	
	Authorisations and/or restrictions on use	
	Candidate List of Substances of Very High Concern for Authorisation	All chemicals are not listed.
	REACH: ANNEX XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	All chemicals are not listed.
	REACH: ANNEX XIV List of substances subject to authorisation	All chemicals are not listed.
	Community Rolling Action Plan (CoRAP)	Listed: Citral (CAS No.: 5392-40-5)
15.1.2	National regulations	None known.
15.2	Chemical Safety Assessment	Not applicable.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
Flam. Liq. 3	Flammable liquid Category 3
Flam. Sol. 2	Flammable solid Category 2
Acute Tox. 4	Acute toxicity Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
Eye Dam. 1	Serious eye damage/irritation Category 1
Eye Irrit. 2	Serious eye damage/irritation Category 2
Skin Sens. 1	Respiratory or skin sensitization Category 1
Skin Sens. 1B	Respiratory or skin sensitization Category 1B
STOT SE 2	Specific target organ toxicity — single exposure Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3
Aquatic Acute 1	Hazardous to the aquatic environment Acute Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment Chronic Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment Chronic Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment Chronic Category 3

Hazard Statement(s) and Precautionary Statement(s)

H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P264	Wash thoroughly after handling.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

Citrus

Hazard Pictogram(s)

GHS02



GHS05



GHS07



GHS08



GHS09



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Annex to the extended Safety Data Sheet (eSDS)

Not applicable.