



SAFETY DATA SHEET **UTC – MANDARIN**

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

1.1 Product Identifier

Product Form: Mixture
Product Name: Air Freshener Aerosol 750ml/500ml/270ml/100ml
Product No: Mandarin – CR831

1.2 Relevant identified uses of the substances of mixture and uses advised against

1.2.1 Relevant Identified uses

Air Freshener for general public use

1.2.2 Uses advised against

No additional information available

1.3 Details of the supplier of the safety data sheet

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to (EC) 1272/2008 [CLP]

Aerosol Category 1 H222;H229

Serious eye damage/eye irritation Category 2 H319

The full text for all Hazard statements are displayed in Section 16.

Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol

2.2 Label elements

Label in accordance with (EC) 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02



GHS07

Signal Word (CLP): Danger

Hazard Statements (CLP):

| | |
|------|--|
| H222 | Extremely Flammable Aerosol |
| H229 | Pressurized container: May burst if heated |
| H319 | Causes serious eye irritation |

Precautionary Statements (CLP):

| | |
|------|---|
| P102 | Keep out of reach of children |
| 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 |
| P501 | Dispose of contents/container in accordance with Local Regulations |

Supplementary Precautionary Statements:

| | |
|--------------|--|
| P273 | Avoid release into the environment |
| P305+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P370+378 | In case of fire: Use carbon dioxide, dry chemical, foam for extinction. |
| P410+412 | Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. |

2.3 Other hazards:

No additional information available

Sections 3. Composition / information on ingredients**3.1 Substance**

Not applicable

3.2 Mixtures

Contains:

| Name | CAS | EC | % | Classification for (CLP) 1272/2008 |
|---------------------------|------------|-----------|----------|--|
| Petroleum Gases Liquified | 68476-85-7 | 270-704-2 | 70-100% | Flam Gas 1-H220 |
| Ethyl alcohol | 64-17-5 | 200-578-6 | <20% | Flam Liq 2-H225 Eye Irrit 2:H319 (SCL ≥50%) |
| di-limonene | 138-86-3 | 205-341-0 | 0.1-0.7% | Flam Liq 3-H226; Asp Tox 1-H304; Skin Irrit 2-H315; Skin Sens 1-H317; Aquat Chron 1-H410 |

The full text for Hazard and Precautionary statements are listed in Section 16.

Section 4. First aid measures**4.1 First aid measures****General information**

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

DO NOT induce vomiting. Get medical attention immediately

Skin contact

Wash the skin immediately with soap and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if any discomfort continues.

Eye Contact

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

4.2 Most important symptoms and effects, both acute and delayed

| | |
|---------------------------------------|--|
| Symptoms/injuries: | Not expected to present a significant hazard under anticipated conditions of normal use |
| Symptoms/injuries after inhalation: | Not expected to present a significant inhalation hazard under anticipated conditions of normal use. May cause slight irritation. |
| Symptoms/injuries after skin contact: | Not expected to present a significant skin hazard under anticipated conditions of normal use. May cause slight irritation. |
| Symptoms/injuries after eye contact: | Causes eye irritation. |
| Symptoms/injuries after ingestion: | Not expected to present a significant ingestion hazard under anticipated conditions of normal use. May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract. |

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

Section 5: Firefighting measures**5.1 Extinguishing media**

Suitable media: Carbon dioxide, Dry chemical, Foam.

5.2 Special hazards arising from the substance or mixture.

| | |
|-----------------------------|-----------------------------|
| Fire hazard: | Extremely flammable aerosol |
| Reactivity in case of fire: | Not known |
| Hazardous decomposition | |
| Products in case of fire: | Toxic fumes may be released |

5.3 Advice for fire fighters:

| | |
|---------------------------------|--|
| Precautionary measures fire: | Stop leak if safe to do so |
| Firefighting instructions: | Eliminate all ignition sources if safe to do so. Fight fire with normal Precautions from a reasonable distance |
| Protection during firefighting: | Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

Section 6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures:**

General measures: Ensure adequate ventilation. Eliminate ignition sources. Avoid release into The environment.

6.1.1 For non-emergency personnel

| | |
|-----------------------|--|
| Protective equipment: | Not required for normal conditions of use |
| Emergency procedure: | Ventilate spillage area. Eliminate all ignition sources if safe to do so. Avoid contact With skin and eyes |

6.1.2 for emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further

Information refer to section 8: "Exposure controls/personal protection". Avoid Contact with skin and eyes.

Emergency procedure: Ventilate spillage area. Eliminate all ignition sources if safe to do so.

6.2 Environmental precautions:

Avoid release into the environment.

6.3 Methods and material for containment and cleaning up:

For containment: Not applicable

Methods for cleaning up: This material and its container must be disposed of in a safe way, as per local regulations and legislation.

Other information: This material and its container must be disposed of as hazardous waste. Dispose of in a safe way, as per local regulations and legislation.

6.4 Reference to other sections:

Also refer to sections 8 and 13.

Section 7. Handling and storage

7.1 Precautions for safe handling:

Additional hazards when processed:

Handle empty containers with care because residual vapours are flammable. In use, may form flammable vapour-air mixture. Pressurized container: Do not Pierce, or burn, even after use.

Precautions for safe handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition Sources. No smoking. Do not spray on to an open flame or other ignition Source. Pressurized container: do not pierce or burn, even after use.

Hygiene measures: Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures: Ensure adequate ventilation

Storage conditions: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F Store in a well ventilated place. Keep cool.

Incompatible products: Strong bases, strong acids. Oxidising agents.

Incompatible materials: Sources of ignition. Heat sources. Direct sunlight.

Storage area: Store in a well ventilated place. Keep away from open flames, hot surfaces, And sources of ignition.

Special rules on packaging: Keep only in original container.

7.3 Specific end use(s):

Air care products. Use in accordance with good manufacturing and industrial hygiene practises.

Section 8. Exposure controls/personal protection

8.1 Control Parameters

No additional information available.

8.2 Exposure controls

Workplace exposure limits:

| Ingredient | CAS | EC | STD | TWA – 8 Hrs | STEL- 15 Min | Reference |
|------------|-------|-------|-----|------------------------|------------------------|-------------|
| Petroleum | 6847 | 270- | WEL | 1000 ppm | 1250ppm | UK EH40 Dec |
| Gases | 6-85- | 704-2 | | 1750 mg.m ³ | 2180 mg.m ³ | 2011 |
| Liquefied | 7 | | | | | |

| | | | | | | | |
|---------------|---------|-----------|-----|------------------------------------|--|--|------------------|
| Ethyl alcohol | 64-17-5 | 200-578-6 | WEL | 1000 ppm 1290 mg.m ³ | | | UK EH40 Dec 2011 |
|---------------|---------|-----------|-----|------------------------------------|--|--|------------------|

Derived No Effect Levels (DNEL):

Petroleum Gases Liquified

Not applicable

Ethanol

DNEL for workers

Inhalation DNEL (short term, local) 1900 mg/m³ (irritation respiratory tract)

Inhalation DNEL (long term, systemic) 950 mg/m³ (carcinogenicity)

Dermal DNEL (long term, systemic) 343 mg/kg bw/day (repeated dose toxicity)

DNEL for the general population

Inhalation DNEL (short term, local) 950 mg/m³ (irritation respiratory tract)

Inhalation DNEL (long-term, systemic) 114 mg/m³ (carcinogenicity)

Dermal DNEL (long-term, systemic) 206 mg/kg bw/day (repeated dose toxicity)

Oral DNEL (long-term, systemic) 87 mg/kg bw/day (repeated dose toxicity)

Predicted No Effect Concentration (PNEC):

Petroleum Gases Liquified

Exposure assessments have not been presented for the environment, therefore PNEC values not required

Ethanol

PNEC aqua (freshwater) 0,96 mg/L

PNEC aqua (marine water) 0,79 mg/L

PNEC aqua (intermittent releases): 2,75 mg/L

PNEC sediment (freshwater): 3,6 mg/kg sediment dw

PNEC sediment (marine water): 2,9 mg/kg sediment dw

PNEC soil 0,63 mg/kg soil dw

PNEC STP (Sewage Treatment Plant) 580 mg/L

PNEC oral (food chain) 0,72 g/kg food

8.2 Exposure Controls

Engineering Measures

Distribution, Workplace and Household Settings: Ensure adequate ventilation

Personal Protective Equipment

Eye Protection

Distribution, Workplace and Household Settings: No special protective equipment required

Hand Protection

Distribution, Workplace and Household Settings: No special protective equipment required

Skin and Body Protection

Distribution, Workplace and Household Settings: No special protective equipment required

Respiratory Protection

Distribution, Workplace and Household Settings: No special protective equipment required

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|---|
| (a) Appearance | Aerosol. |
| (b) Odour | Distinctive fragrance |
| c) Odour Threshold | No data available |
| (d) pH | No data available |
| (e) Melting point/freezing point | No data available |
| (f) Initial boiling point and boiling range | No data available |
| (g) Flash point | Estimated at -35°C |
| (h) Evaporation point | No data available |
| (i) Flammability (solid gas) | No data available |
| (j) Upper/lower flammability Or explosive limits | No data available |
| (k) Vapour pressure | No data available |
| (l) Vapour density | No data available |
| (m) Relative density | No data available |
| (n) Water solubility | No data available |
| (o) Partition coefficient n-octanol/water | No data available |
| (p) Auto-ignition temperature | No data available |
| (q) Decomposition temperature | No data available |
| (r) Viscosity | No data available |
| (s) Explosive properties | Pressurised contained. May burst if heated. |
| (t) Oxidising properties | No data available. |

9.2. Other information

Can pressure 70psi.

Section 10. Stability and reactivity**10.1 Reactivity:**

Presents no significant reactivity hazard, by itself or in contact with water.

10.2 Chemical stability

Good stability under normal storage conditions.

10.3 Possibility of hazardous reactions:

Not expected under normal conditions of use.

10.4 Conditions to avoid:

Avoid contact with hot surfaces/heat. No flames; no sparks. Eliminate all sources of ignition

10.5 Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.

10.6 Hazardous decomposition products:

Not expected

Section 11. Toxicological information**11.1 Information on toxicological effects**

This mixture has not been tested as a whole for health effects. The health effects have been calculated in accordance with methods given in regulation (EC) No 1272/2008.

Based upon the hazardous properties of the component substances, and their concentrations, this product has been assessed according to the calculation method of CLP, and found not to be classified for toxicological effects.

| | |
|--|--|
| Acute Toxicity: | Not classified |
| Ethyl Alcohol: | |
| LD50 Oral – Rat | 10,470 mg/kg |
| LC50 Inhalation – Rat | 30,000 mg/l – 4 h |
| LD50 DermaL – Rabbit | 15,800 mg/kg |
| Skin corrosion/Irritation | Not classified |
| Serious eye damage/eye irritation | Not classified |
| Respiratory or skin sensation | Not classified |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified |
| Reproductive Toxicity | Not classified |
| Specific Target Organ Toxicity | Not classified |
| Aspiration hazard | Not classified |
| Potential adverse human health Effects and symptoms | Based on available data, the classification criteria are not met |

Section 12. Ecological information

12.1 Toxicity:

Based upon the hazardous properties of the component substances, and their concentrations, this product has been assessed according to the calculation method of CLP, and found not to be classified for ecological effects.

Ethyl alcohol

| | |
|---|---|
| Toxicity to fish | LC55 – Primephales promelas (Fathead minnow) – 14,200 mg/l – 96 h |
| Toxicity to daphnia and other Aquatic vertebrates | LC50 – Ceriodaphnia dubia (Water flea) - 5,012 mg/l – 48 h |
| Toxicity to algae | EC50 – Chlorella vulgaris (Fresh water algae) - 275 mg/l – 72 h (OECD Test Guidelines 201) |

Liquid petroleum gases

Physical properties indicate that petroleum gases will rapidly volatilise from the aquatic environment and that acute and chronic effects would not be observed in practice.

12.2 Persistence and degradability:

Ethyl alcohol

Result: 95% - Readily biodegradable

Liquid petroleum gases

Expected to be readily biodegradable. Oxidises rapidly by photo-chemical reactions in air

12.3 Bioaccumulative potential:

Ethyl alcohol

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Liquid petroleum gases

Not expected to bioaccumulate significantly

12.4 Mobility in soil:

Ethyl alcohol

No data available

Liquid petroleum gases

Because of their extreme volatility, air is the only environmental compartment that hydrocarbon gases will be found.

12.5 Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects:

No data available.

Section 13. Disposal considerations**13.1 Waste treatment methods:**

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal according to Local Authority Regulations

Section 14. Transport information**14.1 UN Number**

| | |
|---------------------|------|
| UN No (ADR/RID/ADN) | 1950 |
| UN No (IMDG) | 1950 |
| UN NO (ICAO) | 1950 |

14.2 UN Proper Shipping Name

| | |
|------------------|--------------------|
| ADR/IMDG/AND/RID | AEROSOLS |
| IATA | Aerosols Flammable |

14.3 Transport Hazard Class(es)

| | |
|----------------------|----------------|
| ADR/RID/ADN Class | 2.1 |
| ADR/RID/ADN Class | Class 2: Gases |
| ADR Label No | 2.1 & 6.1 |
| IATA | 2.1 |
| IMDG Class | 2.1 |
| ICAO Class/Division | 2.1 |
| ICAO Subsidiary Risk | 6.1 |
| ICAO TEC* No | 20GSF |
| Air Class | 2.1 |
| UK Road Class | 2.1 |
| Transport Labels | L.Q. |

**14.4 Packing Group**

Not Applicable

14.5 Environmental Hazards

| | |
|-------------------------------|--|
| Dangerous for the environment | No |
| Marine pollutant | No |
| Other information | No supplementary information available |

14.6 Special Precautions for user**Overland Transport**

| | |
|-----------------------------------|-----------------|
| Classification Code (ADR): | 5F |
| Special Provisions (ADR): | 190,327,344,625 |
| Limited Quantities (ADR): | 1I |
| Excepted Quantities (ADR): | E0 |
| Packing Instructions (ADR): | P207,LP02 |
| Special Packing provisions (ADR): | PP87, RR6, L2 |
| Mixed Packing provisions (ADR): | MP9 |
| Transport Strategy (ADR): | 2 |

| | |
|--|------------------------|
| Special provisions for carriage – Packages (ADT) | V14 |
| Special Provisions for carriage – Loading, unloading and handling (ADR): | CV9, CV12 |
| Special provisions for carriage – Operation (ADR): | S2 |
| Tunnel Restriction Code: | D |
| <u>Transport by Sea</u> | |
| Special Provisions (IMDG): | 63,190,277,327,344,959 |
| Limited Quantities (IMDG): | SP277 |
| Excepted Quantities (IMDG): | E0 |
| Packing Instructions (IMDG): | P207,LP02 |
| Special Packing provisions (IMDG): | PP87,L2 |
| EmS-No (Fire): | F-D |
| EmS-No (Spillage): | S-U |
| Stowage category (IMDG): | None |
| Stowage and Handling (IMDG): | SW1,SW22 |
| Segregation (IMDG): | SG69 |
| MFAG-No: | 126 |
| <u>Air Transport</u> | |
| PCA Excepted Quantities (IATA): | E0 |
| PCA Limited Quantities (IATA): | Y203 |
| PCA Limited Quantity max net quantity (IATA): | 30KgG |
| PCA Packing instructions (IATA): | 203 |
| PCA max net quantity (IATA): | 75Kg |
| CAO packing instructions (IATA): | 203 |
| CAO max net quantity (IATA): | 150Kg |
| Special provisions (IATA): | A145,A167,A802 |
| ERG Code (IATA): | 10L |
| <u>Inland Waterway Transport</u> | |
| Classification Code (ADN): | 5F |
| Special Provisions (ADN): | 190,327,344,625 |
| Limited Quantities (ADN): | 1 L |
| Excepted Quantities (ADN): | E0 |
| Equipment required (ADN): | PP,EX,A |
| Ventilation (ADN): | VE01,VE04 |
| Number of blue cones/lights (ADN): | 1 |
| <u>Rail Transport</u> | |
| Classification Code (RID): | 5F |
| Special Provisions (RID): | 190,327,344,625 |
| Limited Quantities (RID): | 1L |
| Excepted Quantities (RID): | E0 |
| Packing Instructions (RID): | P207,LP02 |
| Special Packing provisions (RID): | PP87,RR6,L2 |
| Mixed Packing provisions (RID): | MP9 |
| Transport Category (RID): | 2 |
| Special Provisions for carriage – Packages (RID): | W14 |
| Special Provisions for carriage – Loading, unloading and handling (RID): | CW9, CW12 |
| Colis Express (express parcels) (RID): | CE2 |
| Hazard Identification No (RID): | 23 |

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

Not applicable

Section 15. Regulatory information

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

Labelling according to Regulation (EC) No 1272/2008

The chemicals (Hazard information and packaging for supply) regulations 2009 (S.I 2009 No. 716). Control of substances hazardous to health.

Approved code of practice.

Guidance notes

Workplace exposure limits EH40.

15.1.1 EU-Regulations

Contains no REACH substances with Annex XVII restrictions.

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

15.1.2 National Regulations

No additional information available.

15.2 Chemicals safety assessment

A chemical safety assessment has not been carried out for this product.

Section 16. Other information**General Information:**

This product should be used as directed. For further information consult the product data sheet or contact Technical Services.

Information sources:

This Safety Data Sheet was compiled using current safety information supplied by the distributor of raw materials.

Classification under regulation (EC) No 1272/2008**Hazard statements in full**

| | |
|------|--|
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol |
| H225 | Highly flammable liquid and vapour |
| H229 | Pressurised container. May burst if heated |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |

Abbreviations

| | |
|---------------|--|
| Flam Gas 1 | Flammable Gas Category 1 |
| Flam Liq 2 | Flammable Liquid Category 2 |
| Flam Liq 3 | Flammable Liquid Category 3 |
| Asp Tox 1 | Aspiration toxicity category 1 |
| Eye Irrit 2 | Eye Irritant category 2 |
| Skin Irrit 2 | Skin Irritation category 2 |
| Skin Sens 1 | Skin Sensitivity category 1 |
| Aquat Chron 1 | Aquatic Chronic category 1 |
| LD50 | Lethal Dose 50% |
| LC50 | Lethal Concentration 50% |
| OECD | Organisation for Economic and Co-operative Development |

| | |
|------|---|
| PBT | Persistent Bioaccumulative Toxicity |
| vPvB | Very Persistent Very Bioaccumulative |
| IMDG | International Maritime Transport of Dangerous Goods |
| ICAO | International Civil Aviation Organisation |

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Due to different materials used, as well as to varying working conditions, production techniques, and the requirements of the end users, all of which are beyond our control, we strongly recommend that thorough and extensive trials are carried out in order to test the suitability of our products with regard to the required processes and applications. This should also include an ageing test which should be applied to all substrates used.

It is also the responsibility of the purchaser and end user of this product to ensure that all appropriate actions necessary for the protection of the environment, and for the health and safety of their employees are observed.

This datasheet replaces all former versions