



爱普香料集团股份有限公司

APPLE FLAVOR & FRAGRANCE GROUP CO., LTD.

SAFETY DATA SHEET

Frankincense Fragrance

APPLE FLAVOR & FRAGRANCE GROUP CO.,LTD.

Catalogue number:APOO-5199

Version No: 1.1

Safety Data Sheet Safety Data Sheet - Authored according to Rev.7 UN GHS

Issue Date:31/07/2018

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

Product Identifier

Product name: Frankincense Fragrance

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Other means of identification: APOO-5199

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

Relevant identified uses: Prohibited to add in food

Details of the supplier of the safety data sheet

| | |
|--------------------------------|---|
| Registered company name | APPLE FLAVOR & FRAGRANCE GROUP CO.,LTD. |
| Address | No.33, Caoxin Road, Shanghai China |
| Telephone | (86)021-59940388 |
| Fax | (86)021-59940097 |
| Website | w w w.cnaff.com |
| Email | apple@cnaff.com |

Emergency telephone number

| | |
|--|--|
| Association / Organisation | Shanghai Chemical Toxicology Advisory Center |
| Emergency telephone numbers | +86 400-6267-911 |
| Other emergency telephone numbers | Not Available |

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Summary of Hazard in an Emergency Situation

Liquid.Does not burn.

May cause SENSITISATION by skin contact.

Use appropriate container to avoid environmental contamination.

Avoid release to the environment. Refer to special instructions/Safety data sheets.

| | |
|------------------------------|---|
| Classification [1] | Acute Toxicity (Oral) Category 5, Skin Corrosion/Irritation Category 3, Eye Irritation Category 2A, Skin Sensitizer Category 1A, Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2 |
| Legend: | 1. Classification drawn from Catalog of Hazardous Chemical; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI |

Label elements

Hazard pictogram(s)

Continued...

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SIGNAL WORD: **WARNING**

Hazard statement(s)

H303: May be harmful if swallowed.

H316: Causes mild skin irritation.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects.

Precautionary statement(s) Prevention

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P261: Avoid breathing mist/vapours/spray.

P273: Avoid release to the environment.

P272: Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

P312: Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.

P302+P352: IF ON SKIN: Wash with plenty of water and soap.

P305+P351+P338:

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

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501: Dispose of contents/container in accordance with local regulations.

Physical and Chemical Hazard

Liquid. Does not burn.

Health Hazards

Inhaled:

The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Ingestion:

Accidental ingestion of the material may be damaging to the health of the individual.

Skin Contact:

Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.

There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.

Open cuts, abraded or irritated skin should not be exposed to this material

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.

Eye:

This material can cause eye irritation and damage in some persons.

Chronic:

Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.

Environmental Hazards

See Section 12

Continued...

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|------------|-----------|--|
| 127-51-5* | 0.01-0.1 | <u>3-Methyl-4-(2,6,6-tri-methyl-2-cyclohexen-1-yl)-3-buten-2-one</u> |
| 104-55-2* | 0.1-1 | <u>Cinnamal</u> |
| 8000-34-8* | 1-5 | <u>Clove leaf oil</u> |
| 91-64-5* | 5-10 | <u>Coumarin</u> |
| 1506-02-1* | 5-10 | <u>tonallide</u> |
| 111-90-0* | 5-10 | <u>Diethylene glycol monoethyl ether</u> |
| 121-32-4* | 10-15 | <u>Ethyl vanillin</u> |
| 84-66-2* | 50-55 | <u>Diethyl phthalate</u> |

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact

If this product comes in contact with the eyes:

- Wash out immediately with fresh running water.
- 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.
- Seek medical attention without delay; if pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact

If skin contact occurs:

- Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

Inhalation

- If fumes, aerosols or combustion products are inhaled remove from contaminated area.
- Other measures are usually unnecessary.

Ingestion

- **If swallowed do NOT induce vomiting.**
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Seek medical advice.

Advise for rescue team (PPE requirement for rescue personnel)

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- Foam.
- Dry chemical powder.

- BCF (where regulations permit).

Special hazards arising from the substrate or mixture

Fire Incompatibility

None known.

Advice for firefighters

Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves in the event of a fire.
- Prevent, by any means available, spillage from entering drains or water courses.

Fire/Explosion Hazard

- Non combustible.
- Not considered a significant fire risk, however containers may burn.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Measures for Preventing Secondary Contamination

Refer to section above

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills

Environmental hazard - contain spillage.

- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact with the substance, by using protective equipment.

Major Spills

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.

Environmental hazard - contain spillage.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- **DO NOT allow clothing wet with material to stay in contact with skin**

Other information

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.

Conditions for safe storage, including any incompatibilities

Suitable container

- Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

Storage incompatibility

None known

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available

Exposure controls

Appropriate engineering controls

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.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Personal protection



Eye and face protection

- Safety glasses with side shields.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

Skin protection

See Hand protection below

Hands/feet protection

- Wear chemical protective gloves, e.g. PVC.
- Wear safety footwear or safety gumboots, e.g. Rubber

NOTE:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Body protection

See Other protection below

Other protection

- Overalls.
- P.V.C. apron.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance: colorless to light yellow

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| | | | |
|---|----------------|--|---------------|
| Physical state | Liquid | Relative density (25/25°C) | 1.093-1.113 |
| Odour | Characteristic | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | Not Available | Decomposition temperature | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | Not Available |
| Flash point (°C) | Not Available | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Available | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water (g/L) | Not Available | pH as a solution (1%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | Not Available |

SECTION 10 STABILITY AND REACTIVITY

Reactivity:

See section 7

Chemical stability:

- Unstable in the presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerisation will not occur.

Possibility of hazardous reactions:

See section 7

Conditions to avoid:

See section 7

Incompatible materials:

See section 7

Hazardous decomposition products:

See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

| | | |
|--|-----------------|-------------------|
| Frankincense Fragrance | TOXICITY | IRRITATION |
| | Not Available | Not Available |
| 3-Methyl-4-(2,6,6-tri-methyl-2-cyclohexen-1-yl)-3-buten-2-one | TOXICITY | IRRITATION |
| | Not Available | Not Available |
| Cinnamal | TOXICITY | IRRITATION |
| | Not Available | Not Available |
| Clove leaf oil | TOXICITY | IRRITATION |
| | Not Available | Not Available |
| Coumarin | TOXICITY | IRRITATION |
| | Not Available | Not Available |
| tonallide | TOXICITY | IRRITATION |
| | Not Available | Not Available |

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| | | |
|--|-----------------|-------------------|
| Diethylene glycol monoethyl ether | TOXICITY | IRRITATION |
| | Not Available | Not Available |
| Ethyl vanillin | TOXICITY | IRRITATION |
| | Not Available | Not Available |
| Diethyl phthalate | TOXICITY | IRRITATION |
| | Not Available | Not Available |

Legend: 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

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

Legend: ✗ – Data available but does not fill the criteria for classification
✓ – Data available to make classification
⊘ – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity
NO Data available

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------|---------------------------------------|---------------------------------------|
| | NO Data available for all ingredients | NO Data available for all ingredients |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|------------|---------------------------------------|
| | NO Data available for all ingredients |

Mobility in soil

| Ingredient | Mobility |
|------------|---------------------------------------|
| | NO Data available for all ingredients |

Other adverse effects

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste chemicals:

- Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the

Continued...

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same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

- **DO NOT allow wash water from cleaning or process equipment to enter drains.**
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.

Contaminated packing materials:

Refer to section above

Precautions for Transport:

Refer to section above

SECTION 14 TRANSPORT INFORMATION

Labels Required



Marine Pollutant



| | Land transport (UN) | Air transport (ICAO-IATA / DGR) | Sea transport (IMDG-Code / GGVSee) |
|---|--|--|---|
| UN number: 3082 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Transport hazard class(es): 9 Subrisk: Not Applicable Packing group: III | Environmental hazard: Environmentally hazardous Special provisions: 274; 331; 335; 375 Limited quantity: 5 L | Environmental hazard: Environmentally hazardous ERG Code: 9L Special provisions: A97 A158 A197 Cargo Only Packing Instructions: 964 Cargo Only Maximum Qty / Pack: 450 L Passenger and Cargo Packing Instructions: 964 Passenger and Cargo Maximum Qty / Pack: 450 L Passenger and Cargo Limited Quantity Packing Instructions: Y964 Passenger and Cargo Limited Maximum Qty / Pack: 30 kg G | Environmental hazard: Marine Pollutant EMS Number: F-A , S-F Special provisions: 274 335 969 Limited Quantities: 5 L |

Precautions for Transport

Transportation precautions:

- Documentation covering all dangerous goods carried on the vehicle
- The transport unit must be placarded and marked in accordance with relevant transporting requirements.
- Personal protective equipment must be in sufficient quantities and suitable for use by the driver of the vehicle and where required

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for escape purposes, any other persons travelling in the vehicle.

- Vehicles transporting dangerous goods need to be equipped with sufficient and adequate fire protection systems and emergency equipment to handle spillages.

Suitable Containers

See section 7

SECTION 15 REGULATORY INFORMATION

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

3-Methyl-4-(2,6,6-tri-methyl-2-cyclohexen-1-yl)-3-buten-2-one(127-51-5*) is found on the following regulatory lists

- China Inventory of Existing Chemical Substances

Cinnamal(104-55-2*) is found on the following regulatory lists

- China Inventory of Existing Chemical Substances

Clove leaf oil(8000-34-8*) is found on the following regulatory lists

- China Inventory of Existing Chemical Substances

Coumarin(91-64-5*) is found on the following regulatory lists

- China Inventory of Existing Chemical Substances
- International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

tonallide(1506-02-1*) is found on the following regulatory lists

- China Inventory of Existing Chemical Substances

Diethylene glycol monoethyl ether(111-90-0*) is found on the following regulatory lists

- China Inventory of Existing Chemical Substances

Ethyl vanillin(121-32-4*) is found on the following regulatory lists

- China Inventory of Existing Chemical Substances

Diethyl phthalate(84-66-2*) is found on the following regulatory lists

- China Inventory of Existing Chemical Substances

National Inventory Status

| National Inventory | Status |
|-------------------------------|--|
| Australia - AICS | Y |
| Canada - DSL | Y |
| Canada - NDSL | N (Clove leaf oil; Cinnamal; Coumarin; Diethylene glycol monoethyl ether; tonallide; Diethyl phthalate; 3-Methyl-4-(2,6,6-tri-methyl-2-cyclohexen-1-yl)-3-buten-2-one; Ethyl vanillin) |
| China - IECSC | Y |
| Europe - EINEC / ELINCS / NLP | N (Clove leaf oil) |
| Japan - ENCS | N (Clove leaf oil) |
| Korea - KECI | Y |
| New Zealand - NZIoC | Y |
| Philippines - PICCS | Y |
| USA - TSCA | Y |
| Legend: | Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

SECTION 16 OTHER INFORMATION

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources.

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

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of use, frequency of use and current or available engineering controls must be considered.
The information in this SDS is to best of our knowledge true and accurate but all data, instruction, recommendations and suggestions are made without guarantee.