

SAFETY DATA SHEET

In accordance with UN GHS latest edition

Product: OAK F23846

Version: 4

Section 1. Identification of the substance or the mixture and of the supplier

1.1 Product Identifier

Product identifier: OAK F23846(Contains:Hexyl salicylate, Isolongifolene ketone, Musk ketone, alpha-iso-Methylionone)

Other identifiers: None

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

Product uses: Fragrances

1.3 Details of the supplier of the safety data sheet

Company name: Aromatic Fragrances International, Inc

Company address: 85 Wansley Drive SE
Cartersville
GA 30121
USA

Contact: Regulatory Affairs

E-Mail address: regulatory@afi-usa.com

Company phone: 770-334-3906

1.4 Emergency telephone number

Emergency phone: 770-334-3906

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Class and category of danger: Skin Corrosion / Irritation Category 3
Eye Damage / Irritation Category 2
Sensitization - Skin Category 1
Carcinogenicity Category 2
Hazardous to the Aquatic Environment - Acute Hazard Category 1
Hazardous to the Aquatic Environment - Long-term Hazard Category 1
H316, Causes mild skin irritation.
H317, May cause an allergic skin reaction.
H319, Causes serious eye irritation.
H351, Suspected of causing cancer (exposure route).
H410, Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Signal word: Warning

Hazard statements: H316, Causes mild skin irritation.
H317, May cause an allergic skin reaction.
H319, Causes serious eye irritation.
H351, Suspected of causing cancer (exposure route).

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H410, Very toxic to aquatic life with long lasting effects.

Precautionary statements:

- P202, Do not handle until all safety precautions have been read and understood.
- P261, Avoid breathing vapour or dust.
- P264, Wash hands and other contacted skin thoroughly after handling.
- P272, Contaminated work clothing should not be allowed out of the workplace.
- P273, Avoid release to the environment.
- P280, Wear protective gloves/eye protection/face protection.
- P302/352, IF ON SKIN: Wash with plenty of soap and water.
- P305/351/338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308/313, IF exposed or concerned: Get medical advice/attention.
- P333/313, If skin irritation or rash occurs: Get medical advice/attention.
- P337/313, If eye irritation persists: Get medical advice/attention.
- P363, Wash contaminated clothing before reuse.
- P391, Collect spillage.
- P405, Store locked up.
- P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.

Pictograms:



2.3 Other hazards

Other hazards: None

Section 3. Composition / information on ingredients

3.2 Mixtures

Contains:

| Name | CAS | % | GHS Classification |
|--|------------|---------|--|
| Hexyl salicylate | 6259-76-3 | 20-<50% | Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 1; H317-H410 |
| Vanillin | 121-33-5 | 5-<10% | Acute Tox. 5-Eye Irrit. 2A-Aquatic Acute 3;H303-H319-H402 |
| alpha-iso-Methylionone | 127-51-5 | 5-<10% | Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2; H317-H411 |
| Ethyl vanillin | 121-32-4 | 1-<5% | Acute Tox. 5-Eye Irrit. 2B-Aquatic Acute 3;H303-H320-H402 |
| 2-Methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol | 28219-60-5 | 1-<5% | Skin Irrit. 2-Eye Irrit. 2A-Aquatic Acute 1;H315-H319-H400 |
| LILIAL SUB | | 1-<5% | Skin Irrit. 2-Eye Irrit. 2-Skin Sens. 1;H315-H317-H319 |

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| | | | |
|---|-------------|---------|---|
| Isolongifolene ketone | 23787-90-8 | 1-<5% | Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 2; H317-H411 |
| Coumarin | 91-64-5 | 1-<5% | Acute Tox. 4-Skin Sens. 1B-Aquatic Acute 3;H302-H317-H402 |
| 2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol | 63500-71-0 | 1-<5% | Eye Irrit. 2A;H319 |
| Benzyl salicylate | 118-58-1 | 1-<5% | Acute Tox. 5-Eye Irrit. 2B-Skin Sens. 1B-Aquatic Acute 2-Aquatic Chronic 3;H303-H317-H320-H401-H412 |
| Ethyl maltol | 4940-11-8 | 1-<5% | Acute Tox. 4-Aquatic Acute 2;H302-H401 |
| Cedrol methyl ether | 19870-74-7 | 1-<5% | Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 1; H317-H410 |
| Musk ketone | 81-14-1 | 1-<5% | Carc. 2-Aquatic Acute 1-Aquatic Chronic 1;H351-H410 |
| 1-(2-tert.-Butyl cyclohexyloxy)-2-butanol | 139504-68-0 | 1-<5% | Eye Irrit. 2B-Aquatic Acute 2-Aquatic Chronic 2;H320-H411 |
| Linalyl acetate | 115-95-7 | 0.1-<1% | Flam. Liq. 4-Skin Irrit. 2-Eye Irrit. 2B-Skin Sens. 1B-Aquatic Acute 3;H227-H315-H317-H320-H402 |
| Eucalyptol | 470-82-6 | 0.1-<1% | Flam. Liq. 3-Acute Tox. 5-Eye Irrit. 2B-Skin Sens. 1B-Aquatic Acute 3;H226-H303-H317-H320-H402 |
| 2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol | 28219-61-6 | 0.1-<1% | Skin Irrit. 2-Eye Irrit. 2A-Aquatic Acute 2-Aquatic Chronic 2;H315-H319-H411 |
| 4-tert-Butylcyclohexyl acetate | 32210-23-4 | 0.1-<1% | Acute Tox. 5-Skin Sens. 1B-Aquatic Acute 2;H303-H317-H401 |
| 2,2-Dimethyl-3-phenylpropanol | 13351-61-6 | 0.1-<1% | Acute Tox. 4-Skin Irrit. 2-Eye Irrit. 2A-Aquatic Acute 3-Aquatic Chronic 3;H302-H315-H319-H412 |
| Camphor | 76-22-2 | 0.1-<1% | Flam. Sol. 2-Acute Tox. 4-Acute Tox. 4-Skin Irrit. 2-Eye Dam. 1-STOT SE 2-Aquatic Acute 2-Aquatic Chronic 2; H228-H302-H315-H318-H332-H371-H411 |
| Acetyl cedrene | 32388-55-9 | 0.1-<1% | Acute Tox. 5-Skin Sens. 1B-Aquatic Acute 1-Aquatic Chronic 1;H303-H317-H410 |
| beta-Caryophyllene | 87-44-5 | 0.1-<1% | Skin Sens. 1B-Asp. Tox 1-Aquatic Chronic 4;H304-H317-H413 |
| alpha-Cedrene | 469-61-4 | <0.1% | Asp. Tox 1-Aquatic Acute 1-Aquatic Chronic 1;H304-H410 |

Substances with workplace exposure limits, not listed above:

Not Applicable

Section 4. First-aid measures

4.1 Description of first aid measures

Inhalation: Remove from exposure site to fresh air, keep at rest, and obtain medical attention.

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

Skin exposure: IF ON SKIN: Wash with plenty of soap and water.

Ingestion: Rinse mouth with water and obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes mild skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Suspected of causing cancer (exposure route).

4.3 Indication of any immediate medical attention and special treatment needed

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None expected, see Section 4.1 for further information.

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

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

5.3 Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

6.2 Environmental precautions:

Keep away from drains, surface and ground water, and soil.

6.3 Methods and material for containment and cleaning up:

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

6.4 Reference to other sections:

Also refer to sections 8 and 13.

Section 7. Handling and storage

7.1 Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

7.3 Specific end use(s):

Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits: Not Applicable

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8.2 Exposure Controls

Eye / Skin Protection

Wear protective gloves/eye protection/face protection

Respiratory Protection

Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|--|
| Appearance: | Free flowing liquid without sediment |
| Odour: | Characteristic |
| Odour threshold: | Not determined |
| pH: | Not determined |
| Melting point / freezing point: | Not determined |
| Initial boiling point / range: | Not determined |
| Flash point: | > 93 °C |
| Evaporation rate: | Not determined |
| Flammability (solid, gas): | Not determined |
| Upper/lower flammability or explosive limits: | Product does not present an explosion hazard |
| Vapour pressure: | Not determined |
| Vapour density: | Not determined |
| Relative density: | 1.0570 - 1.0670 |
| Solubility(ies): | Not determined |
| Partition coefficient: n-octanol/water: | Not determined |
| Auto-ignition temperature: | Not determined |
| Decomposition temperature: | Not determined |
| Viscosity: | Not determined |
| Explosive properties: | Not expected |
| Oxidising properties: | Not expected |

9.2 Other information:

| | |
|---------------------------|-----------------|
| Refractive Index @ 20C: | 1.5280 - 1.5380 |
| Flash Point (Fahrenheit): | > 200 °F |
| Calculated VOC: | 0.00 |

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Color Range: 1 Very Pale Yellow - 3 Very Pale Yellow

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 extreme heat.

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 using the methods outlined in UN GHS.

| | |
|---|--|
| Acute Toxicity: | Based on available data the classification criteria are not met. |
| Acute Toxicity Oral | >5000 |
| Acute Toxicity Dermal | Not Applicable |
| Acute Toxicity Inhalation | Not Available |
| Skin corrosion/irritation: | Skin Corrosion / Irritation Category 3 |
| Serious eye damage/irritation: | Eye Damage / Irritation Category 2 |
| Respiratory or skin sensitisation: | Sensitization - Skin Category 1 |
| Germ cell mutagenicity: | Based on available data the classification criteria are not met. |
| Carcinogenicity: | Carcinogenicity Category 2 |
| Reproductive toxicity: | Based on available data the classification criteria are not met. |
| 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. |

Information about hazardous ingredients in the mixture

| Ingredient | CAS | LD50/ATE Oral | LD50/ATE Dermal | LC50/ATE Inhalation | LC50 Route |
|-------------------|----------|---------------|-----------------|---------------------|---------------|
| Benzyl salicylate | 118-58-1 | 2200 | Not available | Not available | Not available |

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| | | | | | |
|----------------|-----------|------|---------------|---------------|---------------|
| Coumarin | 91-64-5 | 500 | Not available | Not available | Not available |
| Ethyl maltol | 4940-11-8 | 1200 | Not available | Not available | Not available |
| Ethyl vanillin | 121-32-4 | 3000 | Not available | Not available | Not available |
| Vanillin | 121-33-5 | 3500 | Not available | Not available | Not available |

Refer to Sections 2 and 3 for additional information.

Section 12. Ecological information

12.1 Toxicity:

Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability: Not available

12.3 Bioaccumulative potential: Not available

12.4 Mobility in soil: Not available

12.5 Other adverse effects: Not 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.

Section 14. Transport information

| | 14.1 UN number: | 14.2 UN Proper Shipping Name: | 14.3 Transport hazard class (es): | Sub Risk: | 14.4. Packing Group: |
|-----------------------------|-----------------|--|-----------------------------------|-----------|----------------------|
| UN Model Regulations | UN3082 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate, Cedrol methyl ether) | 9 | - | III |
| IMDG | UN3082 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate, Cedrol methyl ether) MARINE POLLUTANT | 9 | - | III |
| ADR,RID,ADN | UN3082 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate, Cedrol methyl ether) | 9 | - | III |
| ICAO TI | UN3082 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexyl salicylate, Cedrol methyl ether) | 9 | - | III |

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14.5 Environmental hazards: This is classified as an environmentally hazardous substance under the UN Model Regulations. This is classified as a Marine Pollutant under the IMDG Code.

14.6 Special precautions for user: None additional

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable

Section 15. Regulatory information

Essential Oil Components:

| Name | CAS | % |
|------------------------|-----------|---------|
| CEDARWOOD OIL VIRGINIA | 8000-27-9 | 0.1-<1% |
| GURJUN BALSAM OIL | 8030-55-5 | <0.1% |
| ORANGE OIL FLORIDA | 8028-48-6 | <0.1% |

Additional formulation properties

| Name | CAS | % |
|----------------|----------|--------|
| Vanillin | 121-33-5 | 5-<10% |
| Ethyl vanillin | 121-32-4 | 1-<5% |

Components listed on California's SB312

| Name | CAS | % |
|-------------------------|----------|---------|
| BENZYL BENZOATE | 120-51-4 | 20-<50% |
| METHYL IONONE GAMMA | 127-51-5 | 5-<10% |
| COUMARIN (C) | 91-64-5 | 1-<5% |
| BENZYL SALICYLATE (R) | 118-58-1 | 1-<5% |
| LINALOOL | 78-70-6 | 0.1-<1% |

US Department Of Transport Bulk Packing -
 Group:

Naturally-Occuring Materials on Prop65:

| Name | CAS | % |
|---------|----------|---|
| Myrcene | 123-35-3 | |

Section 16. Other information

Concentration % Limits: SCI 3=22.72% EDI 2A=47.31% SS 1=3.19% CAR 2=83.33% EH A1=67.45% EH A2=6.53% EH A3=0.65075865% EH C1=71.50% EH C2=6.97% EH C3=0.69624889% EH C4=54.44%

Total Fractional Values: SCI 3=4.40 EDI 2A=2.11 SS 1=31.39 CAR 2=1.20 EH A1=1.48 EH A2=15.32 EH A3=153.67 EH C1=1.40 EH C2=14.36 EH C3=143.63 EH C4=1.84

Key to revisions:

14.2. UN proper shipping name

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2.1 Classification of the substance or mixture

Concentration % Limits

SECTION 3: Composition/information on ingredients

Total Fractional Values

Key to abbreviations:

| Abbreviation | Meaning |
|-------------------|--|
| Acute Tox. 4 | Acute Toxicity - Oral Category 4 |
| Acute Tox. 4 | Acute Toxicity - Inhalation Category 4 |
| Acute Tox. 5 | Acute Toxicity - Oral Category 5 |
| Aquatic Acute 1 | Hazardous to the Aquatic Environment - Acute Hazard Category 1 |
| Aquatic Acute 2 | Hazardous to the Aquatic Environment - Acute Hazard Category 2 |
| Aquatic Acute 3 | Hazardous to the Aquatic Environment - Acute Hazard Category 3 |
| Aquatic Chronic 1 | Hazardous to the Aquatic Environment - Long-term Hazard Category 1 |
| Aquatic Chronic 2 | Hazardous to the Aquatic Environment - Long-term Hazard Category 2 |
| Aquatic Chronic 3 | Hazardous to the Aquatic Environment - Long-term Hazard Category 3 |
| Aquatic Chronic 4 | Hazardous to the Aquatic Environment - Long-term Hazard Category 4 |
| Asp. Tox 1 | Aspiration Hazard Category 1 |
| Carc. 2 | Carcinogenicity Category 2 |
| Eye Dam. 1 | Eye Damage / Irritation Category 1 |
| Eye Irrit. 2 | Eye Damage / Irritation Category 2 |
| Eye Irrit. 2A | Eye Damage / Irritation Category 2A |
| Eye Irrit. 2B | Eye Damage / Irritation Category 2B |
| Flam. Liq. 3 | Flammable Liquid, Hazard Category 3 |
| Flam. Liq. 4 | Flammable Liquid, Hazard Category 4 |
| Flam. Sol. 2 | Flammable Solid, Hazard Category 2 |
| H226 | Flammable liquid and vapour. |
| H227 | Combustible liquid. |
| H228 | Flammable solid. |
| H302 | Harmful if swallowed. |
| H303 | May be harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H320 | Causes eye irritation. |
| H332 | Harmful if inhaled. |
| H351 | Suspected of causing cancer (exposure route). |
| H371 | May cause damage to organs (organs, exposure route). |
| H400 | Very toxic to aquatic life. |
| H401 | Toxic to aquatic life. |

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| | |
|--------------|--|
| H402 | Harmful 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. |
| H413 | May cause long lasting harmful effects to aquatic life. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from heat, sparks, open flames and hot surfaces. - No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical, ventilating and lighting equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P260 | Do not breathe vapour or dust. |
| P261 | Avoid breathing vapour or dust. |
| P264 | Wash hands and other contacted skin thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/eye protection/face protection. |
| P281 | Use personal protective equipment as required. |
| P301/310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P301/312 | IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell. |
| P302/352 | IF ON SKIN: Wash with plenty of soap and water. |
| P303/361/353 | IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304/340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P305/351/338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308/313 | IF exposed or concerned: Get medical advice/attention. |
| P309/311 | IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician. |
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P312 | Call a POISON CENTRE or doctor/physician if you feel unwell. |
| P330 | Rinse mouth. |
| P331 | Do not induce vomiting. |
| P332/313 | If skin irritation occurs: Get medical advice/attention. |
| P333/313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P337/313 | If eye irritation persists: Get medical advice/attention. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P363 | Wash contaminated clothing before reuse. |
| P370/378 | In case of fire: Use carbon dioxide, dry chemical, foam for extinction. |
| P391 | Collect spillage. |
| P403/235 | Store in a well-ventilated place. Keep cool. |

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| P405 | Store locked up. |
| P501 | Dispose of contents/container to approved disposal site, in accordance with local regulations. |
| STOT SE 2 | Specific Target Organ Toxicity (Single Exposure) Category 2 |
| Skin Irrit. 2 | Skin Corrosion / Irritation Category 2 |
| Skin Sens. 1 | Sensitization - Skin Category 1 |
| Skin Sens. 1B | Sensitization - Skin Category 1B |

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.