

FRESH PICKED STRAWBERRIES

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 1.2

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : STRAWBERRY
 CAS-No. : MIXTURE
 Product code : Strawberry

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Voyageur Soap & Candle Company Ltd.
 14 - 19257 Enterprise Way
 Surrey, B.C. - Canada
 T 800-758-7773

1.4. Emergency telephone number

Emergency number : INFOTRAC (US & Canada) 1-800-535-5053 | (International) 1-352-323-3500

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

| | |
|----------------------------------------------|----------------------------------------------------------|
| Flammable liquids Category 4 | H227 Combustible liquid |
| Serious eye damage/eye irritation Category 2 | H319 Causes serious eye irritation |
| Skin sensitization, Category 1 | H317 May cause an allergic skin reaction |
| Carcinogenicity Category 2 | H351 Suspected of causing cancer |
| Reproductive toxicity Category 2 | H361 Suspected of damaging fertility or the unborn child |

Full text of H- and EUH-statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Warning

Hazard statements (GHS US) :

H227 - Combustible liquid
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H351 - Suspected of causing cancer
 H361 - Suspected of damaging fertility or the unborn child

Precautionary statements (GHS US) :

P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
 P264 - Wash hands, forearms and face thoroughly after handling.
 P272 - Contaminated work clothing must not be allowed out of the workplace.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 - If on skin: Wash with plenty of water.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 - If exposed or concerned: Get medical advice/attention.
 P321 - Specific treatment (see supplemental first aid instruction on this label).
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P363 - Wash contaminated clothing before reuse.
 P370+P378 - In case of fire: Use media other than water to extinguish.
 P403+P235 - Store in a well-ventilated place. Keep cool.

FRESH PICKED STRAWBERRIES

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|------------------------------|---------------------|---------|---------------------------------------------------------------------------------------------------------------------------------|
| BENZYL BENZOATE | (CAS-No.) 120-51-4 | 30 – 70 | Acute Tox. 4 (Oral), H302 |
| D-LIMONENE | (CAS-No.) 5989-27-5 | 1 – 5 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 |
| Linalool | (CAS-No.) 78-70-6 | 1 – 5 | Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 |
| ALDEHYDE C 16 | (CAS-No.) 77-83-8 | 1 – 5 | Skin Sens. 1B, H317 |
| BENZYL ALCOHOL | (CAS-No.) 100-51-6 | 1 – 5 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319 |
| GERANIOL | (CAS-No.) 106-24-1 | 1 – 5 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 |
| 2-ethyl-3-hydroxypyran-4-one | (CAS-No.) 4940-11-8 | 1 – 5 | Acute Tox. 4 (Oral), H302 |
| BUTYLPHENYL METHYLPROPIONAL | (CAS-No.) 80-54-6 | < 0.5 | Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Repr. 2, H361 |
| ESTRAGOLE | (CAS-No.) 140-67-0 | < 0.5 | Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Muta. 2, H341 Carc. 2, H351 |

Full text of hazard classes, H- and EUH-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact : 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.
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : May cause an allergic skin reaction.
Symptoms/effects after eye contact : Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

FRESH PICKED STRAWBERRIES

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid.

5.3. Special protective equipment and precautions for fire-fighters

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

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

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".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

BENZYL BENZOATE (120-51-4)

Not applicable

D-LIMONENE (5989-27-5)

Not applicable

Linalool (78-70-6)

Not applicable

ESTRAGOLE (140-67-0)

Not applicable

LILIAL (80-54-6)

Not applicable

GERANIOL (106-24-1)

Not applicable

ETHYL MALTOL (4940-11-8)

Not applicable

FRESH PICKED STRAWBERRIES

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

BENZYL ALCOHOL (100-51-6)

Not applicable

ALDEHYDE C 16 (77-83-8)

Not applicable

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical state | : Liquid |
| Color | : Mixture contains one or more component(s) which have the following colour(s): White Colourless to yellow Colourless to brown Colourless to light yellow On exposure to air: yellow Colourless |
| Odor | : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Mild odour Pleasant odour Aromatic odour Floral odour Characteristic odour Lemon odour Pine odour Almost odourless Alcohol odour Fruity odour Sweet odour Strong odour Irritating/pungent odour |
| Odor threshold | : No data available |
| pH | : No data available |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : ≈ 81 °C |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Not applicable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |

FRESH PICKED STRAWBERRIES

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|----------------------|---------------------|
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known 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

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| BENZYL BENZOATE (120-51-4) | |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat | > 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 2 ml/kg (Modification of Draize 1959 method, 4 h, Rabbit, Experimental value, Dermal) |
| ATE US (oral) | 1500 mg/kg body weight |
| ATE US (dermal) | 4000 mg/kg body weight |
| D-LIMONENE (5989-27-5) | |
| LD50 oral rat | > 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Read-across, Oral) |
| LD50 dermal rabbit | > 5000 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Weight of evidence, Dermal) |
| Linalool (78-70-6) | |
| LD50 oral rat | 2790 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | 5610 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 7 day(s)) |
| ATE US (oral) | 2790 mg/kg body weight |
| ATE US (dermal) | 5610 mg/kg body weight |
| ESTRAGOLE (140-67-0) | |
| ATE US (oral) | 1230 mg/kg body weight |
| LILIAL (80-54-6) | |
| ATE US (oral) | 1390 mg/kg body weight |
| GERANIOL (106-24-1) | |
| LD50 oral rat | 3600 mg/kg body weight (Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 5000 mg/kg (Rabbit, Experimental value, Dermal) |
| ATE US (oral) | 3600 mg/kg body weight |

FRESH PICKED STRAWBERRIES

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| ETHYL MALTOL (4940-11-8) | |
|---------------------------------|-------------------------------|
| LD50 oral rat | 1150 mg/kg (Rat, Oral) |
| LD50 dermal rabbit | > 5000 mg/kg (Rabbit, Dermal) |
| ATE US (oral) | 1150 mg/kg body weight |

| BENZYL ALCOHOL (100-51-6) | |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat | 1620 mg/kg bw/day (Rat, Male, Experimental value, Oral) |
| LD50 dermal rabbit | > 2000 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal) |
| LC50 Inhalation - Rat | > 4.178 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male/female, Experimental value, Inhalation (aerosol)) |
| ATE US (oral) | 1620 mg/kg body weight |
| ATE US (dermal) | 2500 mg/kg body weight |
| ATE US (dust, mist) | 1.5 mg/l/4h |

| ALDEHYDE C 16 (77-83-8) | |
|--------------------------------|----------------------------------------------------------------------------------------------------------------|
| LD50 oral rat | 5470 mg/kg (Rat, Male/female, Weight of evidence, Oral, 14 day(s)) |
| LD50 dermal rat | > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value, Dermal) |
| ATE US (oral) | 5470 mg/kg body weight |

| | |
|-----------------------------------|----------------------------------------|
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Suspected of causing cancer. |

| D-LIMONENE (5989-27-5) | |
|-------------------------------|----------------------|
| IARC group | 3 - Not classifiable |

| | |
|-----------------------|--------------------------------------------------------|
| Reproductive toxicity | : Suspected of damaging fertility or the unborn child. |
| STOT-single exposure | : Not classified |

STOT-repeated exposure : Not classified

| Linalool (78-70-6) | |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------|
| NOAEL (dermal,rat/rabbit,90 days) | 250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |

| | |
|-------------------------------------|----------------------------------------|
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : No data available |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Eye irritation. |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

| BENZYL BENZOATE (120-51-4) | |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| LC50 fish 1 | 2.32 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP) |
| EC50 Daphnia 1 | 3.09 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |

| D-LIMONENE (5989-27-5) | |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| LC50 fish 1 | 720 µg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal) |
| EC50 Daphnia 1 | 0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |

FRESH PICKED STRAWBERRIES

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Linalool (78-70-6) | |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| LC50 fish 1 | 27.8 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP) |
| EC50 Daphnia 1 | 59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| ErC50 (algae) | 156.7 mg/l (DIN 38412-9, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration) |

| GERANIOL (106-24-1) | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 fish 1 | 22 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP) |
| EC50 Daphnia 1 | 10.8 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |
| ErC50 (algae) | 13.1 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP) |

| BENZYL ALCOHOL (100-51-6) | |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 fish 1 | 460 mg/l (EPA OPP 72-1, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration) |
| EC50 Daphnia 1 | 230 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Fresh water, Experimental value, GLP) |
| ErC50 (algae) | 770 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |

| ALDEHYDE C 16 (77-83-8) | |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 fish 1 | 4.2 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, GLP) |
| ErC50 (algae) | 36 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |

12.2. Persistence and degradability

| BENZYL BENZOATE (120-51-4) | |
|-----------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

| D-LIMONENE (5989-27-5) | |
|-------------------------------|------------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
| ThOD | 3.29 g O ₂ /g substance |

| Linalool (78-70-6) | |
|-------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

| GERANIOL (106-24-1) | |
|-------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

| ETHYL MALTOL (4940-11-8) | |
|---------------------------------|-----------------------------------------------|
| Persistence and degradability | Biodegradability in water: no data available. |

| BENZYL ALCOHOL (100-51-6) | |
|----------------------------------|------------------------------------------------------------|
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 1.6 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.4 g O ₂ /g substance |
| ThOD | 2.5 g O ₂ /g substance |

| ALDEHYDE C 16 (77-83-8) | |
|--------------------------------|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |

12.3. Bioaccumulative potential

| BENZYL BENZOATE (120-51-4) | |
|-------------------------------------------------|--------------------------------------------------|
| BCF fish 1 | 2.286 (BCFBAF v3.00, Pisces, QSAR) |
| Partition coefficient n-octanol/water (Log Pow) | 3.97 (Experimental value, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| D-LIMONENE (5989-27-5) | |
|-------------------------------|-------------------------------------------|
| BCF fish 1 | 864.8 – 1022 (Pisces, QSAR, Fresh weight) |

FRESH PICKED STRAWBERRIES

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| D-LIMONENE (5989-27-5) | |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C) |
| Bioaccumulative potential | Potential for bioaccumulation ($4 \geq \text{Log Kow} \leq 5$). |
| Linalool (78-70-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation ($\text{Log Kow} < 4$). |
| GERANIOL (106-24-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.6 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation ($\text{Log Kow} < 4$). |
| ETHYL MALTOL (4940-11-8) | |
| Bioaccumulative potential | No bioaccumulation data available. |
| BENZYL ALCOHOL (100-51-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 1 – 1.1 (Experimental value, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation ($\text{Log Kow} < 4$). |
| ALDEHYDE C 16 (77-83-8) | |
| Partition coefficient n-octanol/water (Log Pow) | 2.4 – 2.8 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation ($\text{Log Kow} < 4$). |

12.4. Mobility in soil

| BENZYL BENZOATE (120-51-4) | |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Surface tension | 0.027 N/m (210 °C) |
| Partition coefficient n-octanol/water (Log Koc) | 3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value) |
| Ecology - soil | Low potential for mobility in soil. |
| D-LIMONENE (5989-27-5) | |
| Ecology - soil | Adsorbs into the soil. |
| Linalool (78-70-6) | |
| Surface tension | 8.3 mN/m (20 °C, ISO 9101: Surface active agents - Determination of interfacial tension) |
| Ecology - soil | No (test)data on mobility of the substance available. |
| GERANIOL (106-24-1) | |
| Partition coefficient n-octanol/water (Log Koc) | 1.85 (log Koc, PCKOCWIN v1.66, Calculated value) |
| Ecology - soil | Highly mobile in soil. |
| BENZYL ALCOHOL (100-51-6) | |
| Surface tension | 39 mN/m (20 °C) |
| Ecology - soil | No (test)data on mobility of the substance available. |
| ALDEHYDE C 16 (77-83-8) | |
| Surface tension | 59 N/m (19.6 °C, 0.79 g/l, OECD 115: Surface Tension of Aqueous Solutions) |
| Partition coefficient n-octanol/water (Log Koc) | 2.34 – 2.74 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |
| Ecology - soil | Low potential for adsorption in soil. |

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

FRESH PICKED STRAWBERRIES

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

| | |
|--------------------------------|---------------------------------------------------------------------------------------------------|
| Transport document description | : UN3082 Environmentally hazardous substances, liquid, n.o.s. (BENZYL BENZOATE(120-51-4)), 9, III |
| UN-No.(DOT) | : UN3082 |
| Proper Shipping Name (DOT) | : Environmentally hazardous substances, liquid, n.o.s. BENZYL BENZOATE(120-51-4) |
| Class (DOT) | : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140 |
| Packing group (DOT) | : III - Minor Danger |
| Hazard labels (DOT) | : 9 - Class 9 (Miscellaneous dangerous materials) |



| | |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : 203 |
| DOT Packaging Bulk (49 CFR 173.xxx) | : 241 |
| DOT Symbols | : G - Identifies PSN requiring a technical name |
| DOT Special Provisions (49 CFR 172.102) | : 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies. 146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination. 173 - An appropriate generic entry may be used for this material. 335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s.," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP. |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 155 |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : No limit |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : No limit |
| DOT Vessel Stowage Location | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. |
| Emergency Response Guide (ERG) Number | : 171 |
| Other information | : No supplementary information available. |

Transportation of Dangerous Goods

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|--------------------------------|--------------------------------------------------------------------------------------------------|
| Transport document description | : UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE(120-51-4)), 9, III |
| UN-No. (TDG) | : UN3082 |

FRESH PICKED STRAWBERRIES

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Proper Shipping Name (Transportation of Dangerous Goods) | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| TDG Primary Hazard Classes | : 9 - Class 9 - Miscellaneous Products, Substances or Organisms |
| Packing group | : III - Minor Danger |
| TDG Special Provisions | : 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S.; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S.; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S.; (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S.; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS, 99 - (1) Mixtures of solids that are not dangerous goods and liquids or solids that are UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. or UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. may be handled, offered for transport or transported as UN3077 if there is no visible liquid when the dangerous goods are loaded into a means containment and during transport. (2) These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no accidental release of the dangerous goods that could endanger public safety. |
| Explosive Limit and Limited Quantity Index | : 5 L |

Transport by sea

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|---------------------------------------|---------------------------------------------------------------------------------------------------|
| Transport document description (IMDG) | : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE(120-51-4)), 9, III |
| UN-No. (IMDG) | : 3082 |
| Proper Shipping Name (IMDG) | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| Class (IMDG) | : 9 - Miscellaneous dangerous substances and articles |
| Packing group (IMDG) | : III - substances presenting low danger |
| Limited quantities (IMDG) | : 5 L |

Air transport

| | |
|---------------------------------------|---------------------------------------------------------------------------------------------------|
| Transport document description (IATA) | : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (BENZYL BENZOATE(120-51-4)), 9, III |
| UN-No. (IATA) | : 3082 |
| Proper Shipping Name (IATA) | : Environmentally hazardous substance, liquid, n.o.s. |
| Class (IATA) | : 9 - Miscellaneous Dangerous Substances and Articles |
| Packing group (IATA) | : III - Minor Danger |

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

FRESH PICKED STRAWBERRIES

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

BENZYL BENZOATE (120-51-4)

Listed on the Canadian DSL (Domestic Substances List)

D-LIMONENE (5989-27-5)

Listed on the Canadian DSL (Domestic Substances List)

Linalool (78-70-6)

Listed on the Canadian DSL (Domestic Substances List)

ESTRAGOLE (140-67-0)

Listed on the Canadian DSL (Domestic Substances List)

LILIAL (80-54-6)

Listed on the Canadian DSL (Domestic Substances List)

GERANIOL (106-24-1)

Listed on the Canadian DSL (Domestic Substances List)

ETHYL MALTOL (4940-11-8)

Listed on the Canadian DSL (Domestic Substances List)

BENZYL ALCOHOL (100-51-6)

Listed on the Canadian DSL (Domestic Substances List)

ALDEHYDE C 16 (77-83-8)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

BENZYL BENZOATE (120-51-4)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

EC_INVENTORY

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the Australian HSIS Consolidated List

Listed on the AICS (Australian Inventory of Chemical Substances)

D-LIMONENE (5989-27-5)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

EC_INVENTORY

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the Australian HSIS Consolidated List

Listed on the AICS (Australian Inventory of Chemical Substances)

FRESH PICKED STRAWBERRIES

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Linalool (78-70-6)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
EC_INVENTORY
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)

ESTRAGOLE (140-67-0)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
EC_INVENTORY
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)

LILIAL (80-54-6)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
EC_INVENTORY
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)

GERANIOL (106-24-1)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
EC_INVENTORY
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)

ETHYL MALTOL (4940-11-8)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
EC_INVENTORY
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)

BENZYL ALCOHOL (100-51-6)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
EC_INVENTORY
Listed on INSQ (Mexican National Inventory of Chemical Substances)
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Listed on the AICS (Australian Inventory of Chemical Substances)

FRESH PICKED STRAWBERRIES

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ALDEHYDE C 16 (77-83-8)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
EC_INVENTORY
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 04/23/2021

Full text of H-phrases:

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|------|-----------------------------------------------------|
| H226 | Flammable liquid and vapor |
| H227 | Combustible liquid |
| H302 | 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 |
| H332 | Harmful if inhaled |
| H341 | Suspected of causing genetic defects |
| H351 | Suspected of causing cancer |
| H361 | Suspected of damaging fertility or the unborn child |

SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.