



## Safety Data Sheet

according to 29 CFR 1910.1200 App D (OSHA Hazard Communication Standard)

### Cranberry Fragrance Oil

Version number: GHS 1.0

Date of compilation: 2026-06-16

#### SECTION 1: Identification

##### 1.1 Product identifier

|                |                                                                         |
|----------------|-------------------------------------------------------------------------|
| Trade name     | Cranberry Fragrance Oil                                                 |
| Product SKU(s) | FR10CRA (10 mL), FR30CRA (30 mL), FR100CRA (100 mL), FR16CRA (16 fl oz) |

##### 1.2 Recommended uses

|                     |                                              |
|---------------------|----------------------------------------------|
| Recommended uses    | General use                                  |
| Restrictions on use | For external use only, not for internal use. |

##### 1.3 Details of the supplier of the safety data sheet

|                           |                                                                              |
|---------------------------|------------------------------------------------------------------------------|
| Name and Address          | P&J Trading<br>990 Calle Amanecer<br>San Clemente, CA 92673<br>United States |
| Telephone                 | 888-614-2112                                                                 |
| Telefax                   | 888-634-2260                                                                 |
| e-mail                    | customerservice@pandjtrading.com                                             |
| Website                   | www.pandjtrading.com                                                         |
| e-mail (competent person) | customerservice@pandjtrading.com                                             |

##### 1.4 Emergency telephone number

|                                          |              |
|------------------------------------------|--------------|
| Emergency information service (INFOTRAC) | 800-535-5053 |
| INFOTRAC contract number                 | 108042       |

## SECTION 2: Hazard(s) identification

### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Section | Hazard class       | Category | Hazard class and category | Hazard statement |
|---------|--------------------|----------|---------------------------|------------------|
| A.4S    | skin sensitization | 1        | Skin Sens. 1              | H317             |

For full text of abbreviations: see SECTION 16.

### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

|             |         |
|-------------|---------|
| Signal word | warning |
|-------------|---------|

#### Pictograms



GHS07

#### Hazard statements

|      |                                      |
|------|--------------------------------------|
| H317 | May cause an allergic skin reaction. |
|------|--------------------------------------|

#### Precautionary statements

|           |                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------|
| P261      | Avoid breathing dust/fume/gas/mist/vapors/spray.                                              |
| P272      | Contaminated work clothing must not be allowed out of the workplace.                          |
| P280      | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P302+P352 | If on skin: Wash with plenty of water.                                                        |
| P321      | Specific treatment (see on this label).                                                       |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention.                              |
| P362+P364 | Take off contaminated clothing and wash it before reuse.                                      |
| P501      | Dispose of contents/container to industrial combustion plant.                                 |

### 2.3 Other hazards

|                                           |                                                                                   |
|-------------------------------------------|-----------------------------------------------------------------------------------|
| Results of PBT and vPvB assessment        | Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$ .       |
| Endocrine disrupting properties           | Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$ . |
| Ingredient(s) with unknown acute toxicity | 0% – no components with unknown acute toxicity.                                   |

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not relevant (mixture)

**3.2 Mixtures**

Description of the mixture

| Name of substance    | Identifier          | Wt%      | Classification acc. to GHS                | Pictograms                                                                          |
|----------------------|---------------------|----------|-------------------------------------------|-------------------------------------------------------------------------------------|
| CINNAMIC ALDEHYDE    | CAS No<br>104-55-2  | 5 – < 10 | Skin Sens. 1A / H317                      |  |
| ORANGE OIL MIDSEASON | CAS No<br>8008-57-9 | 1 – < 5  | Flam. Liq. 3 / H226                       |  |
| EUGENOL              | CAS No<br>97-53-0   | 1 – < 5  | Acute Tox. 4 / H302                       |  |
| LINALOOL 925         | CAS No<br>78-70-6   | < 1      | Skin Sens. 1B / H317; Flam. Liq. 4 / H227 |  |
| ISO EUGENOL          | CAS No<br>97-54-1   | < 1      | Skin Sens. 1A / H317                      |  |

**3.3 Remarks**

For full text of abbreviations: see SECTION 16

|                     |                                                                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Trade secret</b> | The exact percentage (concentration) of the ingredients has been withheld as a trade secret; concentration ranges are provided in accordance with 29 CFR 1910.1200 Appendix D. |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**SECTION 4: First-aid measures****4.1 Description of first-aid measures**

|                               |                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General notes</b>          | Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. |
| <b>Following inhalation</b>   | If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.                                                                                                                                                                                                                          |
| <b>Following skin contact</b> | Wash with plenty of soap and water.                                                                                                                                                                                                                                                                                                                |
| <b>Following eye contact</b>  | Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.                                                                                                                                                                                 |
| <b>Following ingestion</b>    | Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.                                                                                                                                                                                                                                                                  |

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms and effects are not known to date.

**4.3 Indication of any immediate medical attention and special treatment needed**

none

**SECTION 5: Fire-fighting measures****5.1 Extinguishing media**

|                                       |                                                           |
|---------------------------------------|-----------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Water spray, BC-powder, Carbon dioxide (CO <sub>2</sub> ) |
| <b>Unsuitable extinguishing media</b> | Water jet                                                 |

**5.2 Special hazards arising from the substance or mixture**

|                                      |                                                                                             |
|--------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Hazardous combustion products</b> | Nitrogen oxides (NO <sub>x</sub> ), Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ) |
|--------------------------------------|---------------------------------------------------------------------------------------------|

**5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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

|                                    |                                                                    |
|------------------------------------|--------------------------------------------------------------------|
| <b>For non-emergency personnel</b> | Remove persons to safety.                                          |
| <b>For emergency responders</b>    | Wear breathing apparatus if exposed to vapors/dust/aerosols/gases. |

**6.2 Environmental precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

**6.3 Methods and material for containment and cleaning up**

|                                                          |                                                                                                                                |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Advice on how to contain a spill</b>                  | Covering of drains                                                                                                             |
| <b>Advice on how to clean up a spill</b>                 | Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder |
| <b>Appropriate containment techniques</b>                | Use of adsorbent materials.                                                                                                    |
| <b>Other information relating to spills and releases</b> | Place in appropriate containers for disposal. Ventilate affected area.                                                         |

**6.4 Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

|                                                                        |                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recommendations</b>                                                 |                                                                                                                                                                                                                                                                                                                                                |
| <b>Measures to prevent fire as well as aerosol and dust generation</b> | Use local and general ventilation. Use only in well-ventilated areas.                                                                                                                                                                                                                                                                          |
| <b>Advice on general occupational hygiene</b>                          | Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs. |

**7.2 Conditions for safe storage, including any incompatibilities**

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| <b>Packaging compatibilities</b> | Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. |
|----------------------------------|------------------------------------------------------------------------------------------------|

**7.3 Specific end use(s)**

See section 16 for a general overview.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

|                                                                       |                                   |
|-----------------------------------------------------------------------|-----------------------------------|
| <b>Occupational exposure limit values (Workplace Exposure Limits)</b> | this information is not available |
|-----------------------------------------------------------------------|-----------------------------------|

**8.2 Exposure controls**

|                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appropriate engineering controls</b>                               | General ventilation.                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Individual protection measures (personal protective equipment)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Eye/face protection</b>                                            | Wear eye/face protection.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Skin protection</b>                                                |                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Hand protection</b>                                                | Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. |
| <b>Other protection measures</b>                                      | Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.                                                                                                                                                                                                                                                                 |
| <b>Respiratory protection</b>                                         | In case of inadequate ventilation wear respiratory protection.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Environmental exposure controls</b>                                | Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.                                                                                                                                                                                                                                                                                                         |

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|                                                                 |                                                           |
|-----------------------------------------------------------------|-----------------------------------------------------------|
| <b>Physical state</b>                                           | liquid                                                    |
| <b>Color</b>                                                    | PALE YELLOW                                               |
| <b>Odor</b>                                                     | Comparable to standard                                    |
| <b>Melting point/freezing point</b>                             | not determined                                            |
| <b>Boiling point or initial boiling point and boiling range</b> | 320 °F at 1,026 hPa                                       |
| <b>Flammability</b>                                             | this material is combustible, but will not ignite readily |
| <b>Lower and upper explosion limit</b>                          | not determined                                            |
| <b>Flash point</b>                                              | 201 °F                                                    |
| <b>Auto-ignition temperature</b>                                | 80.6 °F (auto-ignition temperature (liquids and gases))   |
| <b>Decomposition temperature</b>                                | not relevant                                              |
| <b>pH (value)</b>                                               | not determined                                            |
| <b>Kinematic viscosity</b>                                      | not determined                                            |
| <b>Solubility(ies)</b>                                          | not determined                                            |

## Partition coefficient

|                                                          |                                   |
|----------------------------------------------------------|-----------------------------------|
| <b>Partition coefficient n-octanol/water (log value)</b> | this information is not available |
| <b>Vapor pressure</b>                                    | 186.4 Pa at 25 °C                 |

## Density and/or relative density

|                                 |                                               |
|---------------------------------|-----------------------------------------------|
| <b>Density</b>                  | 0.9329 g / ml at 25 °C                        |
| <b>Relative vapour density</b>  | information on this property is not available |
| <b>Particle characteristics</b> | not relevant (liquid)                         |

## 9.2 Other information

|                                                           |                                                             |
|-----------------------------------------------------------|-------------------------------------------------------------|
| <b>Information with regard to physical hazard classes</b> | hazard classes acc. to GHS (physical hazards): not relevant |
|-----------------------------------------------------------|-------------------------------------------------------------|

Other safety characteristics

|                       |         |
|-----------------------|---------|
| <b>Liquid content</b> | 98.76 % |
| <b>Solid content</b>  | 1.235 % |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

Oxidizers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

|                                 |                                                                                                           |
|---------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Classification procedure</b> | The method for classification of the mixture is based on ingredients of the mixture (additivity formula). |
|---------------------------------|-----------------------------------------------------------------------------------------------------------|

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

|                                                         |                                                                                                          |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Acute toxicity</b>                                   | Shall not be classified as acutely toxic. GHS of the United Nations, annex 4: May be harmful if inhaled. |
| <b>Skin corrosion/irritation</b>                        | Shall not be classified as corrosive/irritant to skin.                                                   |
| <b>Serious eye damage/eye irritation</b>                | Shall not be classified as seriously damaging to the eye or eye irritant.                                |
| <b>Respiratory or skin sensitization</b>                | May cause an allergic skin reaction.                                                                     |
| <b>Germ cell mutagenicity</b>                           | Shall not be classified as germ cell mutagenic.                                                          |
| <b>Carcinogenicity</b>                                  | Shall not be classified as carcinogenic.                                                                 |
| <b>Reproductive toxicity</b>                            | Shall not be classified as a reproductive toxicant.                                                      |
| <b>Specific target organ toxicity - single exposure</b> | Shall not be classified as a specific target organ toxicant (single exposure).                           |

|                                                           |                                                                                  |
|-----------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>Specific target organ toxicity - repeated exposure</b> | Shall not be classified as a specific target organ toxicant (repeated exposure). |
| <b>Aspiration hazard</b>                                  | Shall not be classified as presenting an aspiration hazard.                      |

## SECTION 12: Ecological information

### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

|                                               |                                                                                                                                                                                       |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sewage disposal-relevant information</b>   | Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.                                                                         |
| <b>Waste treatment of containers/packages</b> | Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself. |

### 13.2 Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

### 14.1 UN number

|                  |         |
|------------------|---------|
| <b>DOT</b>       | UN 3082 |
| <b>IMDG-Code</b> | UN 3082 |
| <b>ICAO-TI</b>   | UN 3082 |

**14.2 UN proper shipping name**

|                                               |                                                     |
|-----------------------------------------------|-----------------------------------------------------|
| <b>DOT</b>                                    | Environmentally hazardous substance, liquid, n.o.s. |
| <b>IMDG-Code</b>                              | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| <b>ICAO-TI</b>                                | Environmentally hazardous substance, liquid, n.o.s. |
| <b>Technical name (hazardous ingredients)</b> | DIOCTYL ADIPATE, CINNAMIC ALDEHYDE                  |

**14.3 Transport hazard class(es)**

|                  |   |
|------------------|---|
| <b>DOT</b>       | 9 |
| <b>IMDG-Code</b> | 9 |
| <b>ICAO-TI</b>   | 9 |

**14.4 Packing group**

|                  |     |
|------------------|-----|
| <b>DOT</b>       | III |
| <b>IMDG-Code</b> | III |
| <b>ICAO-TI</b>   | III |

**14.5 Environmental hazards**

|                                                                  |                                      |
|------------------------------------------------------------------|--------------------------------------|
| <b>Environmental hazards</b>                                     | hazardous to the aquatic environment |
| <b>Environmentally hazardous substance (aquatic environment)</b> | DIOCTYL ADIPATE, CINNAMIC ALDEHYDE   |

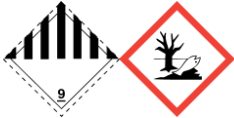
**14.6 Special precautions for user**

There is no additional information.

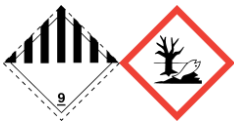
**14.7 Transport in bulk according to IMO instruments**

The cargo is not intended to be carried in bulk.

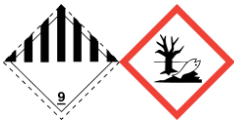
**Information for each of the UN Model Regulations****Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information**

|                                                 |                                                                                                                     |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Particulars in the shipper's declaration</b> | UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: DIOCTYL ADIPATE, CINNAMIC ALDEHYDE), 9, III |
| <b>Danger label(s)</b>                          |                                  |
| <b>Environmental hazards</b>                    | yes (hazardous to the aquatic environment)                                                                          |
| <b>Special provisions (SP)</b>                  | 8, 146, 173, 335, 441, IB3, T4, TP1, TP29                                                                           |
| <b>ERG No</b>                                   | 171                                                                                                                 |

**International Maritime Dangerous Goods Code (IMDG) - Additional information**

|                                 |                                                                                   |
|---------------------------------|-----------------------------------------------------------------------------------|
| <b>Marine pollutant</b>         | yes (hazardous to the aquatic environment) (DIOCTYL ADIPATE)                      |
| <b>Danger label(s)</b>          |  |
| <b>Special provisions (SP)</b>  | 274, 335, 375, 969                                                                |
| <b>Excepted quantities (EQ)</b> | E1                                                                                |
| <b>Limited quantities (LQ)</b>  | 5 L                                                                               |
| <b>EmS</b>                      | F-A, S-F                                                                          |
| <b>Stowage category</b>         | A                                                                                 |

**International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information**

|                                 |                                                                                   |
|---------------------------------|-----------------------------------------------------------------------------------|
| <b>Environmental hazards</b>    | yes (hazardous to the aquatic environment)                                        |
| <b>Danger label(s)</b>          |  |
| <b>Special provisions (SP)</b>  | A97, A158, A197, A215                                                             |
| <b>Excepted quantities (EQ)</b> | E1                                                                                |
| <b>Limited quantities (LQ)</b>  | 30 kg                                                                             |

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations specific for the product in question****National regulations (United States)**

|                                           |                                         |
|-------------------------------------------|-----------------------------------------|
| <b>Toxic Substance Control Act (TSCA)</b> | not all ingredients are listed (ACTIVE) |
|-------------------------------------------|-----------------------------------------|

**Superfund Amendments and Reauthorization Act (SARA TITLE III)**

|                                                                                                                    |                                    |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)</b> | none of the ingredients are listed |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------|

**Specific Toxic Chemical Listings (EPCRA Section 313)**

| <b>Name of substance</b> | <b>CAS No</b> | <b>Effective date</b> |
|--------------------------|---------------|-----------------------|
| ACETOPHENONE             | 98-86-2       | 1993-12-31            |
| MUSK G CONCENTRATE       | 1222-05-5     | 2022-12-31            |

**Clean Air Act**

none of the ingredients are listed

**Right to Know Hazardous Substance List**

**Cleaning Product Right to Know Act Substance List (CA-RTK)**

| Name of substance                       | CAS No    | Authoritative Lists    |
|-----------------------------------------|-----------|------------------------|
| (2E)-3-phenylprop-2-enal                | 104-55-2  | EU Fragrance Allergens |
| ORANGE OIL MIDSEASON                    | 8008-57-9 | EU Fragrance Allergens |
| 2-methoxy-4-(prop-2-en-1-yl)phenol      | 97-53-0   | EU Fragrance Allergens |
| 3,7-dimethylocta-1,6-dien-3-ol          | 78-70-6   | EU Fragrance Allergens |
| 2-methoxy-4-[(1E)-prop-1-en-1-yl]phenol | 97-54-1   | IARC Carcinogens - 2B  |

**California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1986**

none of the ingredients are listed

**VOC content**

|                                                           |         |
|-----------------------------------------------------------|---------|
| <b>Regulated Volatile Organic Compounds (VOC-EPA)</b>     | 8.209 % |
| <b>Regulated Volatile Organic Compounds (VOC-Cal ARB)</b> | 8.209 % |

**Industry or sector specific available guidance(s)****NPCA-HMIS® III**

Hazardous Materials Identification System. American Coatings Association.

| Category            | Rating | Description                                                                                                                                                |
|---------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chronic             | /      | none                                                                                                                                                       |
| Health              | 2      | temporary or minor injury may occur                                                                                                                        |
| Flammability        | 1      | material that must be preheated before ignition can occur                                                                                                  |
| Physical hazard     | 0      | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | -      |                                                                                                                                                            |

**NFPA® 704**

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category       | Degree of hazard | Description                                                                                      |
|----------------|------------------|--------------------------------------------------------------------------------------------------|
| Flammability   | 1                | material that must be preheated before ignition can occur                                        |
| Health         | 2                | material that, under emergency conditions, can cause temporary incapacitation or residual injury |
| Instability    | 0                | material that is normally stable, even under fire conditions                                     |
| Special hazard |                  |                                                                                                  |

**National inventories**

| Country | Inventory | Status                         |
|---------|-----------|--------------------------------|
| US      | TSCA      | not all ingredients are listed |

**Legend**

|      |                              |
|------|------------------------------|
| TSCA | Toxic Substances Control Act |
|------|------------------------------|

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information, including date of preparation or last revision

#### Abbreviations and acronyms

| Abbr.          | Descriptions of used abbreviations                                                                                                                 |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 49 CFR US DOT  | 49 CFR U.S. Department of Transportation                                                                                                           |
| Acute Tox.     | Acute toxicity                                                                                                                                     |
| Cal ARB        | California Air Resources Board                                                                                                                     |
| CAS            | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                             |
| DGR            | Dangerous Goods Regulations (see IATA/DGR)                                                                                                         |
| DOT            | Department of Transportation (USA)                                                                                                                 |
| ED             | Endocrine disruptor                                                                                                                                |
| EmS            | Emergency Schedule                                                                                                                                 |
| EPA            | Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment |
| ERG No         | Emergency Response Guidebook - Number                                                                                                              |
| Flam. Liq.     | Flammable liquid                                                                                                                                   |
| GHS            | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                          |
| IATA           | International Air Transport Association                                                                                                            |
| IATA/DGR       | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                     |
| ICAO           | International Civil Aviation Organization                                                                                                          |
| ICAO-TI        | Technical instructions for the safe transport of dangerous goods by air                                                                            |
| IMDG           | International Maritime Dangerous Goods Code                                                                                                        |
| IMDG-Code      | International Maritime Dangerous Goods Code                                                                                                        |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition                                      |
| OSHA           | Occupational Safety and Health Administration (United States)                                                                                      |
| PBT            | Persistent, Bioaccumulative and Toxic                                                                                                              |

| Abbr.             | Descriptions of used abbreviations                                                                  |
|-------------------|-----------------------------------------------------------------------------------------------------|
| <b>RTECS</b>      | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) |
| <b>Skin Sens.</b> | Skin sensitization                                                                                  |
| <b>VOC</b>        | Volatile Organic Compounds                                                                          |
| <b>vPvB</b>       | Very Persistent and very Bioaccumulative                                                            |

**Key literature references and sources for data**

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

**Classification procedure**

Physical and chemical properties: The classification is based on tested mixture. Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**List of relevant phrases (code and full text as stated in section 2 and 3)**

| Code        | Text                                 |
|-------------|--------------------------------------|
| <b>H226</b> | Flammable liquid and vapor.          |
| <b>H227</b> | Combustible liquid.                  |
| <b>H302</b> | Harmful if swallowed.                |
| <b>H317</b> | May cause an allergic skin reaction. |

**Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.