

**Product code** DSD0001

**Product name** DO-SI-DOS TYPE N&A FA

**Issue date** 08 Jan 2020

**Revision Date** 09 Jan 2020

**Version** 1

### 1. Identification of the Substance/Preparation and of the Company/Undertaking

**Product identifier**

**Product name** DO-SI-DOS TYPE N&A FA

**Other means of identification**

**Product code** DSD0001

**UN/ID no** 1197

**Synonyms** None

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Industry Use

**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

**Supplier Address**

TERPENEWAREHOUSE  
3100 East Cedar St. Suite 16  
Ontario, CA 91761  
[info@terpenewarehouse.com](mailto:info@terpenewarehouse.com)  
phone: +1 760-205-5222

**Emergency telephone number**

**Company Phone Number** Chemtrec 1-800-424-9300 Use CHEMTREC instead of Emergency Phone Number

**Emergency telephone** Contract# CCN17256

### 2. Hazards Identification

**2.1 Classification of the substance or mixture**

- Acute toxicity, dermal (chapter 3.1), Cat. 5
- Acute toxicity, oral (chapter 3.1), Cat. 4
- Aspiration hazard (chapter 3.10), Cat. 1
- Flammable liquids (chapter 2.6), Cat. 3
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1
- Sensitization, skin (chapter 3.4), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Eye damage/irritation (chapter 3.3), Cat. 2A

**2.2 GHS label elements, including precautionary statements**

**Pictogram**



**Signal word** Danger

**Hazard statement(s)**

H226 Flammable liquid and vapor  
H303 May be harmful if swallowed  
H303+H313 May be harmful if swallowed or in contact with skin  
H304 May be fatal if swallowed and enters airways  
H313 May be harmful in contact with skin  
H315 Causes skin irritation  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation  
H400 Very toxic to aquatic life  
H410 Very toxic to aquatic life with long lasting effects

**Precautionary statement(s)**

P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P233 Keep container tightly closed.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P240 Ground/bond container and receiving equipment.  
P362 Take off contaminated clothing.  
P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash ... thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P312 Call a POISON CENTER/doctor/... if you feel unwell.  
P321 Specific treatment (see ... on this label).  
P331 Do NOT induce vomiting. Rinse mouth  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P370+P378 In case of fire: Use CO2, dry chemical or foam to extinguish.  
P391 Collect spillage.  
P403+P235 Store in a well ventilated place. Keep cool.  
P405 Store locked up.  
P501 Dispose of contents/container to an approved waste disposal plant  
P302+P352 IF ON SKIN: Wash with plenty of water/...  
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.

### 3.Composition / information on ingredients

**3.1 Ingredients**

| Name               | CAS-Number | Percentage |
|--------------------|------------|------------|
| Alpha-Bisabolol    | 23089-26-1 | 5 - 10 %   |
| Alpha-Cedrene      | 469-61-4   | < 5 %      |
| Alpha-Humulene     | 6753-98-6  | 5 - 10 %   |
| Alpha-Phellandrene | 99-83-2    | < 5 %      |
| Alpha-Pinene       | 80-56-8    | 5 - 10 %   |
| Alpha-Terpinene    | 99-86-5    | < 5 %      |
| Alpha-Terpineol    | 98-55-5    | < 5 %      |
| Benzoin            | 119-53-9   | < 3 %      |

|                       |           |           |
|-----------------------|-----------|-----------|
| Beta-Caryophyllene    | 87-44-5   | 15 - 20 % |
| Beta-Pinene           | 127-91-3  | 5 - 10 %  |
| Camphene              | 79-92-5   | < 5 %     |
| Camphor               | 76-22-2   | < 5 %     |
| Cis-Ocimene           | 3338-55-4 | 5 - 10 %  |
| Citral Diethyl Acetal | 7492-66-2 | < 3 %     |
| Citronellol           | 106-22-9  | < 3 %     |
| Delta-3-Carene        | 498-15-7  | < 3 %     |
| D-Limonene            | 5989-27-5 | 10 - 15 % |
| Fenchol               | 1632-73-1 | < 5 %     |
| Geraniol              | 106-24-1  | < 5 %     |
| Isoborneol            | 124-76-5  | < 5 %     |
| Linalool              | 78-70-6   | 5 - 10 %  |
| L-Menthol             | 2216-51-5 | < 5 %     |
| Myrcene               | 123-35-3  | 20 - 25 % |
| Nerol                 | 106-25-2  | < 5 %     |
| Sabinene              | 3387-41-5 | < 5 %     |
| Terpinolene           | 586-62-9  | < 5 %     |
| Trans-Ocimene         | 3779-61-1 | < 5 %     |
| Valencene             | 4630-07-3 | < 5 %     |

### 3.2 Mixtures

#### Hazardous components

##### 1. D-Limonene

EC no. 227-813-5

CAS no. 5989-27-5

- Acute toxicity, dermal (chapter 3.1), Cat. 5
- Acute toxicity, oral (chapter 3.1), Cat. 5
- Aspiration hazard (chapter 3.10), Cat. 1
- Flammable liquids (chapter 2.6), Cat. 3
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1
- Sensitization, skin (chapter 3.4), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 2

|           |                                                      |
|-----------|------------------------------------------------------|
| H226      | Flammable liquid and vapor                           |
| H303+H313 | May be harmful if swallowed or in contact with skin  |
| H304      | May be fatal if swallowed and enters airways         |
| H315      | Causes skin irritation                               |
| H317      | May cause an allergic skin reaction                  |
| H400      | Very toxic to aquatic life                           |
| H410      | Very toxic to aquatic life with long lasting effects |

##### 2. Beta Caryophyllene

CAS no. 87-44-5

##### 3. Myrcene

CAS no. 123-35-3

- Aspiration hazard (chapter 3.10), Cat. 1
- Eye damage/irritation (chapter 3.3), Cat. 2A
- Flammable liquids (chapter 2.6), Cat. 3

- Skin corrosion/irritation (chapter 3.2), Cat. 2

|      |                                              |
|------|----------------------------------------------|
| H226 | Flammable liquid and vapor                   |
| H226 | Flammable liquid and vapor                   |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation                       |
| H319 | Causes serious eye irritation                |

## 4. First Aid Measures

### 4.1 Description of first-aid measures

|                                                        |                                                                                                                                                                                                                                                       |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                                         | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.                                                                             |
| If inhaled                                             | If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.                                        |
| In case of skin contact                                | Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.                                                                              |
| In case of eye contact                                 | Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eyelids.                                                                       |
| If swallowed                                           | Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. |
| Personal protective equipment for first-aid responders | No data available.                                                                                                                                                                                                                                    |

### 4.2 Most important symptoms/effects, acute and delayed

No data available.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

## 5. Fire-Fighting Measures

### 5.1 Suitable extinguishing media

Water spray, fog, CO<sub>2</sub>, dry chemical, or alcohol resistant foam.

### 5.2 Specific hazards arising from the chemical

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Limonene: Static charges generated by emptying package in or near flammable vapor may cause flash fire. Fire may produce irritating, corrosive and / or toxic gases.

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Beta Caryophyllene: Carbon oxides.

### 5.3 Special protective actions for fire-fighters

In case of fire and / or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep runoff water out of sewers and water sources. Dike for water control.

**Further information**

No data available.

**6. Accidental release Measures****6.1 Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of spillage to drain / aquatic environment.

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

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.  
The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 12 of the SDS

**7. Handling and storage****7.1 Precautions for safe handling**

Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.

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

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

**Specific end use(s)**

No data available.

**8. Exposure controls / personal protection****8.1 Appropriate engineering controls**

Engineering controls      Showers  
Eyewash stations  
Ventilation systems.

**8.2 Individual protection measures, such as personal protective equipment (PPE)****Eye/face protection**

Wear safety glasses with side shields (or goggles). Avoid contact with eyes.

**Skin and body protection**

Avoid contact with skin. Wear protective gloves and protective clothing.

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced. NIOSH/MSHA approved respiratory protection should be worn.

Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. Ensure adequate ventilation especially in confined areas.

**Thermal hazards**

No data available.

**Environmental exposure controls**

No data available.

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice. Do not eat drink or smoke when using this product.

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended. Avoid breathing (dust, vapor, mist, gas).

**9. Physical and chemical properties****Information on basic physical and chemical properties**

|                                               |                            |
|-----------------------------------------------|----------------------------|
| Appearance/form (physical state, color, etc.) | Clear, light yellow liquid |
| Odor                                          | Characteristic             |
| Odor threshold                                | No data available.         |
| pH                                            | No data available.         |
| Melting point/freezing point                  | No data available.         |
| Initial boiling point and boiling range       | No data available.         |
| Flash point                                   | No data available.         |
| Evaporation rate                              | No data available.         |
| Flammability (solid, gas)                     | No data available.         |
| Upper/lower flammability limits               | No data available.         |
| Upper/lower explosive limits                  | No data available.         |
| Vapor pressure                                | No data available.         |
| Vapor density                                 | No data available.         |
| Relative density                              | No data available.         |
| Solubility(ies)                               | No data available.         |
| Partition coefficient: n-octanol/water        | No data available.         |
| Auto-ignition temperature                     | No data available.         |
| Decomposition temperature                     | No data available.         |
| Viscosity                                     | No data available.         |
| Explosive properties                          | No data available.         |
| Oxidizing properties                          | No data available.         |

**Other safety information**

No data available.

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

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

**10.2 Chemical stability**

Material is stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No dangerous reaction known under conditions of normal use.

**10.4 Conditions to avoid**

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Strong oxidizing agents.

**10.5 Incompatible materials**

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Limonene: Strong oxidizing agents.

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Myrcene: Strong oxidizing agents. Heat, flames and sparks.

**10.6 Hazardous decomposition products**

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Limonene: No hazardous decomposition products if stored and handled as indicated.

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Beta Caryophyllene: No data available.

|                                      |
|--------------------------------------|
| <b>11. Toxicological information</b> |
|--------------------------------------|

**Information on toxicological effects****Acute toxicity**

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Limonene: Maybe fatal if swallowed and enters airways. May be harmful in contact with skin. May cause an allergic skin reaction.

-----  
Beta Caryophyllene: No data available.

**Skin corrosion/irritation**

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Limonene: Causes skin irritation.

-----  
Beta Caryophyllene: No data available.

**Serious eye damage/irritation**

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Limonene: Direct contact with eyes may cause temporary irritation.  
Eyes - rabbit. Result: No eye irritation.  
(OECD Test Guideline 405)

-----  
Beta Caryophyllene: No data available.

**Respiratory or skin sensitization**

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Limonene: May cause an allergic skin reaction.  
Mouse. Result: May cause sensitisation by skin contact.  
(OECD Test Guideline 429)

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Beta Caryophyllene: No data available.

**Germ cell mutagenicity**

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Limonene: Mouse  
Lymphocyte

Result: Negative

Rat - Male

Result: Negative

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Beta Caryophyllene: No data available.

### **Carcinogenicity**

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Limonene: IARC Monographs: Overall Evaluation of Carcinogenicity - CARVENE (CAS 5989-27-5) 3  
Not

classifiable as to carcinogenicity to humans.

OSHA: Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

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Beta Caryophyllene: IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probably, possibly or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as  
probably,

possibly or confirmed human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as  
probably, possibly

or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as  
probably,

possibly or confirmed human carcinogen by OSHA.

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Myrcene: IARC: No component of this product present at levels greater than or equal to 0.1% is  
identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as  
probable,

possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as  
probable,

possible or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as  
probable,

possible or confirmed human carcinogen by OSHA.

### **Reproductive toxicity**

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Limonene: This product is not expected to cause reproductive or developmental effects.

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Beta Caryophyllene: No data available.

### **Summary of evaluation of the CMR properties**

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Limonene: No data available.

STOT-single exposure

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Limonene: Not classified.

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Beta Caryophyllene: No data available.

STOT-repeated exposure

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Limonene: Repeated dose toxicity - mouse - male and female - No observed adverse effect level - 1,650 mg/kg -

Lowest observed adverse effect level - 3,300 mg/kg.

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Beta Caryophyllene: No data available.

#### **Aspiration hazard**

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Limonene: No data available.

### **12.Ecological Information**

#### **Toxicity**

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Limonene: Very toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

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Beta Caryophyllene: No data available.

#### **Persistence and degradability**

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Limonene: Biodegradability: Result: 71% - Readily biodegradable. (OECD Test Guideline 301B)

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Beta Caryophyllene: No data available.

#### **Bioaccumulative potential**

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Limonene: No data available.

#### **Mobility in soil**

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Limonene: No data available.

#### **Results of PBT and vPvB assessment**

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Limonene: No data available.

#### **Other adverse effects**

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Limonene: EC50 Water Flea (*Daphnia pulex*) 69.6 mg/l, 48 hours

LC50 Fathead minnow (*Pimephales promelas*) 0.619 - 0.796 mg/l, 96 hours

LC50 Rainbow trout, donaldson trout (*Oncorhynchus mykiss*) 35 mg/l, 4 days

EC50 Activated sludge 3.94 mg/l

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Beta Caryophyllene: No data available.

### **13.Disposal Considerations**

#### **Disposal of the product**

Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers /water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents / container in accordance with local / regional / national / international regulations.

**Disposal of contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**Waste treatment**

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see disposal instructions).

**Sewage disposal**

No data available.

**Other disposal recommendations**

Dispose of in accordance with all applicable regulations.

**14. Transport Information****DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**15. Regulatory Information****15.1 Safety, health and environmental regulations specific for the product in question****CAA Section 112 HAPs List**

Not regulated.

**CAA Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**New Jersey Right to Know Components**

Chemical Name: Caryophyllene

CAS Number: 87-44-5. Chemical Name: 7-Methyl-3-methyleneocta-1,6-diene,

CAS Number: 123-35-3

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Pennsylvania Right to Know Components**

Chemical Name: Caryophyllene

CAS Number: 87-44-5. Chemical Name: 7-Methyl-3-methyleneocta-1,6-diene,

CAS Number: 123-35-3

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 302 Extremely Hazardous Substance**

Not listed.

**SARA 304 Emergency Release Notification**

Not regulated.

**SARA 311 / 312**

No SARA hazards.

**SARA 311 / 312 Hazardous Chemical**

Yes

**SARA 311 / 312 Hazards**

Fire hazard, acute health hazard

**SARA 313 (TRI Reporting)**

Not regulated.

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III,

**Section 313.**

SARA Hazard Categories

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard - No

**16. Other Information**

Issue date 08 Jan 2020

Revision Date 09 Jan 2020

**Revision note**

No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Classification and labelling according to the IFRA/IOFI Labeling Manual 2017.

**End of Safety Data Sheet**