



## MSDS

in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 and Commission Regulation (EU) No 2020/878 of 18 June 2020

### Fragrance Vanilla MDB 17171

No. EN 6

: 02.07.2025

: 08.07.2025

#### IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING:

##### 1.1. Product identifier:

###### MIXTURE IDENTIFICATION:

|                |                             |
|----------------|-----------------------------|
| Product name   | Fragrance Vanilla MDB 17171 |
| Product number | 17171                       |
| UFI Code       | SJND-70GJ-D00T-5CMN         |

##### 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

|                  |   |
|------------------|---|
| RECOMMENDED USE: | Aromatic ingredient for household chemicals and cosmetics.<br>Manufacturing use only, not for direct consumption as such. |
|------------------|---|

|                       |                     |
|-----------------------|---------------------|
| USES ADVISED AGAINST: | Do not use in food. |
|-----------------------|---------------------|

##### 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

|   |                      |
|---|----------------------|
| COMPETENT PERSON<br>RESPONSIBLE FOR THE<br>MATERIAL SAFETY DATA<br>SHEET: | Forbury Supplies Ltd |
|---|----------------------|

|                          |   |
|--------------------------|---|
| ADDRESS OF THE SUPPLIER: | 22 Frieth Close, Earley,<br>Reading, England, RG6 5UY |
|--------------------------|---|

|                                      |               |
|--------------------------------------|---------------|
| TELEPHONE NUMBER OF THE<br>SUPPLIER: | +447786555361 |
|--------------------------------------|---------------|

|         |                           |
|---------|---------------------------|
| E-MAIL: | forburysupplies@gmail.com |
|---------|---------------------------|

##### 1.4. EMERGENCY CONTACTS:

###### IN CASE OF INTOXICATION:

UNITED KINGDOM - National Poisons Information Service  
(24 h service), phone: +44 (0) 844-892-0111  
(UK only);  
FOR OTHER EU COUNTRIES, please consult:  
[http://echa.europa.eu/help/nationalhelp\\_contact\\_en.asp](http://echa.europa.eu/help/nationalhelp_contact_en.asp)

#### SECTION 2 - HAZARDS IDENTIFICATION

##### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to regulation (EC) No 1272/2008 (CLP)

|                    |               |
|--------------------|---------------|
| Product definition | Mixture       |
| H317               | Skin Sens. 1  |
| H315               | Skin Irrit. 2 |

##### 2.2. LABEL ELEMENTS

###### Labelling according to Regulation (EC) (CLP)

Hazard pictograms:



Signal word

Warning

Hazard statements

H317

May cause an allergic skin reaction.

H315

Causes skin irritation.

**Precautionary statements (Prevention and Intervention)**

|           |  |
|-----------|--|
| P261      | Avoid breathing dust/fumes/gas/mist/vapours/spray. [As modified by IV ATP]                         |
| P272      | Contaminated work clothing should not be allowed out of the workplace.                             |
| P280      | Wear protective gloves/protective clothing/eye protection/face protection. [As modified by IV ATP] |
| P264      | Wash thoroughly after handling.  |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water.  |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention.                                   |

**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

- 3.1 SUBSTANCES: Mixture of natural, nature identical and synthetic aromatic products.
- 3.2 MIXTURES: Mixture of natural and synthetic aromatic ingredients.
- 3.2 Hazardous components:

| INGREDIENTS   | %      | CAS No. / EC No.<br>Index No. / REACH No.   | Classification<br>REGULATION (EC) No 1272/2008                    |
|---|--------|---|---|
| Dipropylene Glycol (IUPAC: 1,1'-OXY DI-2-PROPANOL )     | <66%   | CAS No. 25265-71-8<br>EC No. 246-770-3<br>Index No.<br>REACH<br>No.01-2119456811-38-0088            |   |
| Benzyl Alcohol (IUPAC: PHENYLMETHANOL )                 | <19,9% | CAS No. 100-51-6<br>EC No. 202-859-9<br>Index No.603-057-00-5<br>REACH No.<br>01-2119492630-38-xxxx | Acute Tox. 4 ORAL H302 :H302<br>Acute Tox. 4 INHALATION:H332      |
| Ethyl Vanillin (IUPAC: 3-ETHOXY-4-HYDROXYBENZALDEHYDE ) | <8,16% | CAS No. 121-32-4<br>EC No. 204-464-7<br>Index No.<br>REACH No.                                      | Eye Irrit. 2:H319   |
| Benzoic Aldehyde (Benzaldehyde) (IUPAC: BENZALDEHYDE )  | <1,02% | CAS No. 100-52-7<br>EC No. 202-860-4<br>Index No.605-012-00-5<br>REACH No.<br>01-2119455540-44-0000 | Acute Tox. 4 ORAL H302 :H302                                      |
| Cinnamic Alcohol (IUPAC: (2E)-3-PHENYLPROP-2-EN-1-OL )  | <0,51% | CAS No. 104-54-1<br>EC No. 203-212-3<br>Index No.<br>REACH No.                                      | Aquatic Chronic 2:H411<br>Skin Sens. 1:H317<br>Skin Irrit. 2:H315 |
| Ethyl Acetate (IUPAC: ETHYL ACETATE )                   | <0,2%  | CAS No. 141-78-6<br>EC No. 205-500-4<br>Index No.<br>REACH<br>No.01-2119475103-46-xxxx              | Eye Irrit. 2:H319<br>Flam. Liq. 2:H225<br>STOT SE 3 (H336):H336   |
| BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL )          | <0,17% | CAS No. 128-37-0<br>EC No. 204-881-4<br>Index No.<br>REACH No.<br>01-2119555270-46-0000             | Aquatic Chronic 1:H410<br>M Chr=1                                 |

**SECTION 4 - FIRST-AID MEASURES**

- Inhalation Move affected person to fresh air at once. Get medical attention if any discomfort continues
- Ingestion Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately.
- Skin contact Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

- General information Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. See Section 11 for additional information on health hazards.

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

Notes for the doctor No specific recommendations.

## SECTION 5 - FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media:

Suitable extinguishing media      Extinguish with the following media: Foam, carbon dioxide or dry powder.

Unsuitable extinguishing media      Water.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards      Toxic gases or vapours

### 5.3. Advice for firefighters

Protective actions during firefighting      Containers close to fire should be removed or cooled with water.

Special protective equipment for firefighters      Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions      Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. No smoking, sparks, flames or other sources of ignition near spillage.

### 6.2. Environmental precautions

Environmental precautions      Do not discharge into drains or watercourses or onto the ground.

6.4. Reference to other sections

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Usage precautions      Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin, eyes and clothing.

Advice on general occupational hygiene      Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage precautions      Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from freezing and direct sunlight

7.3. Specific end use(s)

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

| INGREDIENT                      | CAS №    | TWA, 8 hours                |
|---------------------------------|----------|-----------------------------|
| Ethyl Acetate (IUPAC: ETHYL ACE | 141-78-6 | TWA= 200* mg/m <sup>3</sup> |
| Benzyl Alcohol (IUPAC: PHENYLM  | 100-51-6 | TWA= 5* mg/m <sup>3</sup>   |
| Benzoic Aldehyde (Benzaldehyde) | 100-52-7 | TWA= 5* mg/m <sup>3</sup>   |

ADDITIONAL INFORMATION:      Information valid at the time of review of safety data sheet.

### 8.2. EXPOSURE CONTROLS:

**ENGINEERING MEASURES:** Comply with standard precautionary measures for working with chemicals. See Directive 2004/37/EG on the protection of workers from the risks related to exposure to carcinogens or mutagens at work. **HYGIENIC MEASURES:** When using do not eat, drink or smoke.

|   |  |
|---|--|
| GENERAL PROTECTIVE AND HYGIENIC MEASURES: | Avoid contact with the eyes. Wash hands during work breaks and at the end of the shift. Provide skin protection plan.  |
| RESPIRATORY PROTECTION:                   | Avoid excessive inhalation of concentrated vapors. Ensure adequate ventilation. If workers are exposed to high concentrations, they must use appropriate, certified respirators. Wear suitable respiratory protection in case of large scale exposure. Suitable facemask in accordance with EN 140.  |
| BODY PROTECTION:                          | Protective clothing. Safety showers should be available in the immediate vicinity of any potential exposure. Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367.  |
| EYE PROTECTION:                           | Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.  |
| Hygiene measures                          | No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.  |
| HAND PROTECTION:                          | Chemical protective gloves according to DIN EN 374 with CE-labelling. Suitable material - nitril. 0.13 mm. Indication of permeation breakthrough time – 1 hour. Check the condition of protective gloves after each use for any damages like holes, cuts or tears. Do not wear protective gloves longer than necessary. After use of gloves apply skin-cleaning agents and skin cosmetics. Gloves for mechanical protection do not provide protection against chemicals. |
| RISK MANAGEMENT MEASURES:                 | The operators shall be instructed adequately. The workplace shall be inspected regularly by competent personnel e.g. the safety representative.  |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

|   |  |
|---|--|
| APPEARANCE:                                       | Homogeneous transparent liquid , opalescence is allowed. |
| AUTOIGNITION TEMPERATURE:                         | No spontaneous combustion                                |
| BOILING POINT:                                    | No data available  |
| COLOUR:   | From colorless to brown                                  |
| DECOMPOSITION TEMPERATURE:                        | No data available  |
| DENSITY, 20 °C:                                   | 0.9 – 1.6 g/cm <sup>3</sup>                              |
| FLASH POINT:                                      | > 61 °C  |
| FREEZING POINT:                                   | No data available  |
| FREEZING POINT:                                   | No data available  |
| KINEMATIC VISCOSITY:                              | No data available  |
| LOWER AND UPPER EXPLOSIVE LIMITS:                 | Not explosive  |
| MELTING POINT/MELTING RANG:                       | < 0 °C   |
| ODOUR:  | Fragrance description                                    |
| PARTITION COEFFICIENT N OCTANOL/WATER (LOG MEAN): | No data available  |
| pH:   | No data available  |
| RELATIVE VAPOR DENSITY:                           | No data available  |

|                        |                    |
|------------------------|--------------------|
| SOLUBILITY IN ALCOHOL: | Soluble            |
| SOLUBILITY IN WATER:   | Limited solubility |
| VAPOR PRESSURE:        | No data available  |

## SECTION 10: STABILITY AND REACTIVITY

|  |  |
|--|--|
| 10.1. REACTIVITY:                        | The product is stable and relatively inert under normal conditions of use, storage and transport.                    |
| 10.2. CHEMICAL STABILITY:                | Under the conditions of use specified in Section 7, the product is stable.   |
| 10.3. POSSIBILITY OF HAZARDOUS REACTION: | Under normal conditions of use, there is no information on dangerous reactions.                                      |
| 10.4. CONDITIONS TO AVOID:               | Contact with incompatible materials.   |
| 10.5. INCOMPATIBLE MATERIALS:            | Strong acids, strong bases, strong oxidants.   |
| 10.6. HAZARDOUS DECOMPOSITION PRODUCTS:  | No decomposition product of storage and handling conditions are followed. In case of fire, hazardous gases may form. |

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### INHALATION

|                       |  |
|-----------------------|--|
| Acute toxicity:       | No data available  |
| Corrosion/irritation: | Not classified – based on available data, the classification criteria are not met.   |
| Sensitisation:        | Does not contain substances classified as respiratory sensitizer. Not classified – based on available data, the classification criteria are not met. |
| Carcinogenicity:      | Does not contain carcinogenic substances. Not classified – based on available data, the classification criteria are not met.                         |
| Mutagenicity:         | Does not contain mutagenic substances. Not classified – based on available data, the classification criteria are not met.                            |

#### SKIN CONTACT:

|                       |  |
|-----------------------|--|
| Acute toxicity:       | No data available  |
| Corrosion/irritation: | Not classified – based on available data, the classification criteria are not met.   |
| Sensitisation:        | Does not contain substances classified as respiratory sensitizer. Not classified – based on available data, the classification criteria are not met. |
| Carcinogenicity:      | Does not contain carcinogenic substances. Not classified – based on available data, the classification criteria are not met.                         |
| Mutagenicity:         | Does not contain mutagenic substances. Not classified – based on available data, the classification criteria are not met.                            |

#### EYE CONTACT:

|                       |                   |
|-----------------------|-------------------|
| Corrosion/irritation: | No data available |
|-----------------------|-------------------|

#### INGESTION:

|                       |  |
|-----------------------|--|
| Acute toxicity:       | No data available  |
| Corrosion/irritation: | May cause a feeling of sickness, vomiting and diarrhoea.   |
| Sensitisation:        | Does not contain carcinogenic substances. Not classified – based on available data, the classification criteria are not met. |
| Carcinogenicity:      | Does not contain carcinogenic substances. Not classified – based on available data, the classification criteria are not met. |

|   |   |
|---|---|
| Mutagenicity:                           | Does not contain mutagenic substances. Not classified – based on available data, the classification criteria are not met.   |
| Reprotoxicity:                          | Not expected to be reprotoxic. Not classified – based on available data, the classification criteria are not met. Fertility: Not classified – based on available data, the classification criteria are not met. |
| 11.2. PRIMARY IRRITANT EFFECT:          | No data available   |
| 11.2.1 ENDOCRINE DISRUPTING PROPERTIES: | BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL )  |
| 11.3. SENSITISATION:                    | Classified as Sensitisation — Skin, hazard category 1.  |
| 11.4 CHRONIC EFFECT:                    | Does not have any classifiable toxicity.  |
| 11.5 TARGET ORGANS:                     | Does not have any classifiable toxicity.  |
| 11.6. CARCINOGENICITY:                  | Does not have any classifiable toxicity.  |
| 11.7. MUTAGENICITY:                     | Does not have any classifiable toxicity.  |
| 11.8. REPROTOXICITY:                    | Does not have any classifiable toxicity.  |

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. TOXICITY:

**No ecotoxicological research has been carried out on this product.**

### Ecotoxicity - Toxic to aquatic organisms:

Ingredients Toxicity:

#### AQUATIC TOXICITY:

|   |                                     |
|---|-------------------------------------|
| Dipropylene Glycol (IUPAC: 1,1'-OXY DI-2-PROPANOL )     |                                     |
| 25265-71-8  |                                     |
| EC50/48 H   | 100 mg/l(Aquatic invertebrates)     |
| LC50/96 H   | 5 000 mg/l(Fish)                    |
| EC50/72H  | 100 mg/l(Algae)                     |
| Benzyl Alcohol (IUPAC: PHENYLMETHANOL )                 |                                     |
| 100-51-6  |                                     |
| LC50/48 H   | 260,415 mg/l(Aquatic invertebrates) |
| EC50/48 H   | 230 mg/l(Aquatic invertebrates)     |
| EC50/21days   | 66 mg/l(Aquatic invertebrates)      |
| LC50/96 H   | 460 mg/l(Fish)                      |
| LC50/72H  | 460 mg/l(Fish)                      |
| LC50/48 H   | 770 mg/l(Fish)                      |
| LC50/24H  | 770 mg/l(Fish)                      |
| EC50/72H  | 500 mg/l(Algae)                     |
| EC50/96 H   | 76,828 mg/l(Algae)                  |
| Ethyl Vanillin (IUPAC: 3-ETHOXY-4-HYDROXYBENZALDEHYDE ) |                                     |
| 121-32-4  |                                     |
| EC50/48 H   | 26,2 mg/l(Aquatic invertebrates)    |
| EC50/21days   | 63 mg/l(Aquatic invertebrates)      |
| LC50/96 H   | 87,6 mg/l(Fish)                     |
| EC50/72H  | 100 mg/l(Aquatic algae and cyanoba) |
| Benzoic Aldehyde (Benzaldehyde) (IUPAC: BENZALDEHYDE )  |                                     |
| 100-52-7  |                                     |
| EC50/48 H   | 19,7 mg/l(Aquatic invertebrates)    |
| EC50/24H  | 50 mg/l(Aquatic invertebrates)      |
| EC50/24H  | 50 mg/l(Aquatic invertebrates)      |
| LC50/96 H   | 13,8 mg/l(Fish)                     |

|  |  |
|--|--|
| LC50/96 H  | 1,07 mg/l(Fish)                        |
| EC50/72H   | 33,1 mg/l(Aquatic algae and cyanoba)   |
| Cinnamic Alcohol (IUPAC: (2E)-3-PHENYLPROP-2-EN-1-OL ) |  |
| 104-54-1   |  |
| LC50/48 H  | 85,398 mg/l(Aquatic invertebrates)     |
| EC50/48 H  | 109,287 mg/l(Aquatic invertebrates)    |
| LC50/96 H  | 9 mg/l(Fish)                           |
| EC50/72H   | 129,34 mg/l(Aquatic algae and cyanoba) |
| EC50/96 H  | 59,906 mg/l(Aquatic algae and cyanoba) |
| Ethyl Acetate (IUPAC: ETHYL ACETATE )                  |  |
| 141-78-6   |  |
| LC50/96 H  | 230 mg/l(Fish)                         |
| EC50/96 H  | 220 mg/l(Fish)                         |
| EC50/48 H  | 5,6 g/l(Algae)                         |
| BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL )         |  |
| 128-37-0   |  |
| LC50/96 H  | 384,5 µg/L(Fish)                       |
| EC50/72H   | 5 120 µg/L(Algae)                      |
| EC50/96 H  | 758 µg/L(Algae)                        |

## 12.2. PERSISTENCE AND DEGRADABILITY:

May cause long-term adverse effects in the aquatic environment.

## ASSESSMENT

No data available

## BIODEGRADATION AND ELIMINATION:

## 12.3. BIOACCUMULATIVE POTENTIAL

No further relevant information available. Low potential for bioaccumulation: logPow&gt;4 (log Powcalculated = 15,122)

| INGREDIENT                          | CAS №      | Partition Coefficient |
|-------------------------------------|------------|-----------------------|
| Dipropylene Glycol (IUPAC: 1,1'-OXY | 25265-71-8 | 1,6500                |

## 12.4. MOBILITY IN SOIL:

No data available

## GENERAL NOTES:

## 12.5. RESULTS OF PBT UN vPvB ASSESSMENT:

This mixture does not contain substances that meet the PBT or vPvB criteria of REACH, annex XIII.

## 12.6. ENDOCRINE DISRUPTING PROPERTIES:

BHT (IUPAC: 2,6-DI-TERT-BUTYL-4-METHYLPHENOL )

## 12.7. OTHER ADVERSE EFFECTS:

## Global Warming Potential

Do not may contribute to the greenhouse effect.

**SECTION 13: DISPOSAL CONSIDERATIONS**

## 13.1. WASTE TREATMENT METHODS:

**Dispose of in accordance with local and national regulations.**

## Product residues:

Do not pour residues into the municipal sewage system.

## Additional warning:

None.

## European waste catalogue:

Dispose of according to directives: 2008/98/ES; 94/62/ES ; 2014/955/EU; 2008/98/ES .

| EUROPEAN WASTE CATALOGUE |   |
|--------------------------|---|
| EWCODE                   | Description   |
| 07                       | Wastes from organic chemical processes:                                       |
|                          | wastes from the MFSU of fine chemicals and chemical products not              |
| 07 07                    | otherwise specified   |
| 07 07 99                 | wastes not otherwise specified  |
|                          | absorbents, filter materials (including oil filters not otherwise specified), |
| 15 02 02*                | wiping cloths, protective clothing contaminated by hazardous substances       |

CONTAMINATED PACKAGING: Hand over the packaging left after use to the person responsible for the disposal of hazardous waste.

RECOMMENDATION: Avoid release to the environment.

#### SECTION 14. TRANSPORT INFORMATION:

14.1. UN number UN 3082

14.2. UN proper shipping name UN 3082 Environmentally hazardous substance, liquid, N.O.S. (Allyl Heptanoate, 7-Acetyl-1,1,3,4,4,6-Hexamethylnalene)

14.3. TRANSPORT HAZARD CLASS (ES): 9

ADR, IATA, IMDG CLASS

DANGER LABEL: 9

14.4. PACKING GROUP: III

ADR, IATA, IMD

14.5. ENVIRONMENTAL HAZARDS: Yes

MARINE POLLUTANT

14.6. SPECIAL PRECAUTIONS FOR USER: Read MSDS and emergency procedures before handling

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE: Not established.  
Packaged liquids are not considered bulk.

#### SECTION 15: REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE: REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. DIRECTIVE 2006/11/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 February 2006 on pollution caused by certain dangerous substances discharged into the aquatic environment of the Community. REGULATION (EC) No 1272/2008 (CLP) of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

INFORMATION ABOUT LIMITATION OF USE: Take note of Directive 94/33/EC on the protection of young people at work.  
Take note of Directive 92/85/EC on the safety and health of pregnant women at work.

15.2. CHEMICAL SAFETY ASSESSMENT: Not applicable.

**Full text of the classifications, including the indication of danger, the hazard symbols and the hazard statements, mentioned in section 2 or 3:**

**Revisions are mentioned by a black stroke in left margin.**

#### ABBREVIATIONS AND ACRONYMS:

PBT: Persistent, bioaccumulative, toxic



|           |  |
|-----------|--|
| vPvB:     | Very persistent, very bioaccumulative  |
| EC:       | European Inventory of Existing Commercial Chemical Substances  |
| CAS:      | Chemical Abstracts Service (division of the American Chemical Society)   |
| ADR:      | European Agreement concerning the International Carriage of Dangerous Goods  |
| IATA:     | International Air Transport Association  |
| IMDG:     | International Maritime Code for Dangerous Goods  |
| LC50:     | Median (50 %) lethal concentration   |
| LD50:     | Median (50%) lethal dose   |
| EC50:     | Effective concentration, 50 percent  |
| CLP:      | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and Mixtures                           |
| ECHA:     | European Chemicals Agency, Helsinki<br>( <a href="http://echa.europa.eu/home_en.asp">http://echa.europa.eu/home_en.asp</a> ) |
| TWA:      | Time Weighted Average  |
| IBC code: | International Bulk Chemical Code   |
| MARPOL:   | International Convention for the Prevention of Pollution From Ships  |
| REACH:    | Registration, Evaluation, Authorisation and Restriction of Chemicals   |
| UN:       | United Nations   |
| ATE:      | Acute Toxicity Estimate  |

**The information given in this MSDS was obtained from current and reliable sources. However, these data are provided without any warranty, expressed or implied, regarding their correctness or accuracy. Since the conditions of use, handling, storage, and disposal of this product are beyond control, it is the responsibility of the user both to determine safe conditions for use as well as to assume liability for loss, damage, and expenses arising out of improper use. No warranty expressed or implied regarding the product described herein shall be created by or inferred from any statement or omission in this MSDS.**