

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## Betamethasone (0.05%) Cream Formulation

Version 5.0      Revision Date: 06.04.2024      SDS Number: 9373303-00007      Date of last issue: 30.09.2023  
Date of first issue: 27.08.2021

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Betamethasone (0.05%) Cream Formulation

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

Use of the Sub-stance/Mixture : Pharmaceutical

Recommended restrictions on use : Not applicable

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

Company : Organon & Co.  
Shotton Lane  
NE23 3JU Cramlington NU - Great Britain

Telephone : +44 1 670 59 32 05

E-mail address of person responsible for the SDS : EHSSTEWARD@organon.com

#### 1.4 Emergency telephone number

+1-215-631-6999

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Reproductive toxicity, Category 1B  
Specific target organ toxicity - repeated exposure, Category 1  
Long-term (chronic) aquatic hazard, Category 1

H360D: May damage the unborn child.  
H372: Causes damage to organs through prolonged or repeated exposure.  
H410: Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

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|                          |   |  |
|--------------------------|---|--|
| Hazard pictograms        | : |    |
| Signal word              | : | Danger   |
| Hazard statements        | : | H360D      May damage the unborn child.<br>H372      Causes damage to organs through prolonged or repeated exposure.<br>H410      Very toxic to aquatic life with long lasting effects.  |
| Precautionary statements | : | <b>Prevention:</b><br>P201      Obtain special instructions before use.<br>P264      Wash skin thoroughly after handling.<br>P273      Avoid release to the environment.<br>P280      Wear protective gloves/ protective clothing/ eye protection/ face protection.<br><br><b>Response:</b><br>P308 + P313      IF exposed or concerned: Get medical advice/ attention.<br>P391      Collect spillage. |

Hazardous components which must be listed on the label:

betamethasone

EUH208      Contains 4-Chloro-3-methylphenol. May produce an allergic reaction.

### 2.3 Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name           | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification  | Concentration<br>(% w/w) |
|-------------------------|---|---|--------------------------|
| 4-Chloro-3-methylphenol | 59-50-7<br>200-431-6<br>604-014-00-3                  | Acute Tox. 4; H302<br>Skin Corr. 1C;<br>H314<br>Eye Dam. 1; H318<br>Skin Sens. 1B;<br>H317<br>STOT SE 3; H335<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 3; | 0.1                      |

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|  |                       |  |       |
|--|-----------------------|--|-------|
|  |                       | H412   |       |
|  |                       | M-Factor (Acute aquatic toxicity): 1   |       |
| betamethasone                                | 378-44-9<br>206-825-4 | Acute Tox. 2; H330<br>Repr. 1B; H360D<br>STOT RE 1; H372<br>(Pituitary gland,<br>Immune system,<br>muscle, thymus<br>gland, Blood, Ad-<br>renal gland)<br>Aquatic Chronic 1;<br>H410 | 0.064 |
|  |                       | M-Factor (Chronic aquatic toxicity): 1,000   |       |
|  |                       | specific concentra-<br>tion limit<br>STOT RE 1; H372<br>>= 0.01 %<br>Repr. 1B; H360D<br>>= 0.01 %<br>STOT RE 1; H372<br>>= 0.01 %<br>Repr. 1B; H360D<br>>= 0.01 %                    |       |
| PBT and vPvB substance :                     |                       |  |       |
| Decamethylcyclpentasiloxane                  | 541-02-6<br>208-764-9 |  | 7     |
| Substances with a workplace exposure limit : |                       |  |       |
| Propylene glycol                             | 57-55-6<br>200-338-0  |  | < 10  |

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

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- If inhaled : If inhaled, remove to fresh air.  
Get medical attention.
- In case of skin contact : In case of contact, immediately flush skin with soap and plenty  
of water.  
Remove contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention.  
Rinse mouth thoroughly with water.

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

- Risks : May damage the unborn child.  
Causes damage to organs through prolonged or repeated  
exposure.
- May produce an allergic reaction.

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

- Treatment : Treat symptomatically and supportively.
- 

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : None known.

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

- Specific hazards during fire-fighting : Vapours may form explosive mixtures with air.  
Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides  
Silicon oxides  
Formaldehyde

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### 5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
- 

## SECTION 6: Accidental release measures

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

- Personal precautions : Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

### 6.2 Environmental precautions

- Environmental precautions : Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

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

- Methods for cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.
- Advice on safe handling : Do not get on skin or clothing. Do not breathe dust, fume, gas, mist, vapours or spray. Do not swallow. Avoid contact with eyes.

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Wash skin thoroughly after handling.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Keep container tightly closed.  
Do not eat, drink or smoke when using this product.  
Take care to prevent spills, waste and minimize release to the environment.  
Do not breathe decomposition products.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.  
The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

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

Requirements for storage areas and containers : Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.

Advice on common storage : Do not store with the following product types:  
Strong oxidizing agents  
Self-reactive substances and mixtures  
Organic peroxides  
Explosives  
Gases

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components              | CAS-No.                   | Value type (Form of exposure)    | Control parameters               | Basis    |
|-------------------------|---------------------------|----------------------------------|----------------------------------|----------|
| Propylene glycol        | 57-55-6                   | TWA (Total vapour and particles) | 150 ppm<br>474 mg/m <sup>3</sup> | GB EH40  |
|                         |                           | TWA (particles)                  | 10 mg/m <sup>3</sup>             | GB EH40  |
| 4-Chloro-3-methylphenol | 59-50-7                   | TWA                              | 200 µg/m <sup>3</sup> (OEB 2)    | Internal |
|                         |                           | Wipe limit                       | 100 µg/100 cm <sup>2</sup>       | Internal |
| betamethasone           | 378-44-9                  | TWA                              | 1 µg/m <sup>3</sup> (OEB 4)      | Internal |
|                         | Further information: Skin |                                  |                                  |          |

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|--|--|------------|---------------------------|----------|
|  |  | Wipe limit | 10 µg/100 cm <sup>2</sup> | Internal |
|--|--|------------|---------------------------|----------|

### Occupational exposure limits of decomposition products

| Components   | CAS-No.   | Value type (Form of exposure) | Control parameters                | Basis      |
|--------------|---|-------------------------------|-----------------------------------|------------|
| Formaldehyde | 50-00-0   | TWA                           | 2 ppm<br>2.5 mg/m <sup>3</sup>    | GB EH40    |
|              | Further information: Capable of causing cancer and/or heritable genetic damage. |                               |                                   |            |
|              |   | STEL                          | 2 ppm<br>2.5 mg/m <sup>3</sup>    | GB EH40    |
|              | Further information: Capable of causing cancer and/or heritable genetic damage. |                               |                                   |            |
|              |   | TWA                           | 0.3 ppm<br>0.37 mg/m <sup>3</sup> | 2004/37/EC |
|              | Further information: Dermal sensitisation, Carcinogens or mutagens              |                               |                                   |            |
|              |   | STEL                          | 0.6 ppm<br>0.74 mg/m <sup>3</sup> | 2004/37/EC |
|              | Further information: Dermal sensitisation, Carcinogens or mutagens              |                               |                                   |            |

### Derived No Effect Level (DNEL):

| Substance name               | End Use   | Exposure routes | Potential health effects   | Value                   |
|------------------------------|-----------|-----------------|----------------------------|-------------------------|
| Decamethylcyclopentasiloxane | Workers   | Inhalation      | Long-term systemic effects | 97.3 mg/m <sup>3</sup>  |
|                              | Workers   | Inhalation      | Acute systemic effects     | 62 mg/m <sup>3</sup>    |
|                              | Workers   | Inhalation      | Long-term local effects    | 24.2 mg/m <sup>3</sup>  |
|                              | Consumers | Inhalation      | Long-term systemic effects | 17.3 mg/m <sup>3</sup>  |
|                              | Consumers | Inhalation      | Long-term local effects    | 4.3 mg/m <sup>3</sup>   |
| Propylene glycol             | Consumers | Ingestion       | Long-term systemic effects | 5 mg/kg bw/day          |
|                              | Workers   | Inhalation      | Long-term local effects    | 10 mg/m <sup>3</sup>    |
|                              | Workers   | Inhalation      | Long-term systemic effects | 168 mg/m <sup>3</sup>   |
|                              | Consumers | Inhalation      | Long-term local effects    | 10 mg/m <sup>3</sup>    |
| 4-Chloro-3-methylphenol      | Consumers | Inhalation      | Long-term systemic effects | 50 mg/m <sup>3</sup>    |
|                              | Workers   | Inhalation      | Long-term systemic effects | 6.289 mg/m <sup>3</sup> |
|                              | Workers   | Skin contact    | Long-term systemic effects | 3.567 mg/kg bw/day      |
|                              | Consumers | Inhalation      | Long-term systemic effects | 1.551 mg/m <sup>3</sup> |
|                              | Consumers | Skin contact    | Long-term systemic effects | 1.783 mg/kg bw/day      |

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|  |           |           |                            |                    |
|--|-----------|-----------|----------------------------|--------------------|
|  | Consumers | Ingestion | Long-term systemic effects | 0.892 mg/kg bw/day |
|--|-----------|-----------|----------------------------|--------------------|

### Predicted No Effect Concentration (PNEC):

| Substance name               | Environmental Compartment  | Value                          |
|------------------------------|----------------------------|--------------------------------|
| Petrolatum                   | Oral (Secondary Poisoning) | 9.33 mg/kg food                |
| Decamethylcyclopentasiloxane | Sewage treatment plant     | 10 mg/l                        |
|                              | Fresh water sediment       | 11 mg/kg                       |
|                              | Marine sediment            | 1.1 mg/kg                      |
|                              | Soil                       | 3.77 mg/kg                     |
| Propylene glycol             | Oral (Secondary Poisoning) | 13 mg/kg food                  |
|                              | Fresh water                | 260 mg/l                       |
|                              | Freshwater - intermittent  | 183 mg/l                       |
|                              | Marine water               | 26 mg/l                        |
|                              | Sewage treatment plant     | 20000 mg/l                     |
| 4-Chloro-3-methylphenol      | Fresh water sediment       | 572 mg/kg dry weight (d.w.)    |
|                              | Marine sediment            | 57.2 mg/kg dry weight (d.w.)   |
|                              | Soil                       | 50 mg/kg dry weight (d.w.)     |
|                              | Fresh water                | 0.015 mg/l                     |
| 4-Chloro-3-methylphenol      | Intermittent use/release   | 0.015 mg/l                     |
|                              | Marine water               | 0.002 mg/l                     |
|                              | Sewage treatment plant     | 2.286 mg/l                     |
|                              | Fresh water sediment       | 13.981 mg/kg dry weight (d.w.) |
|                              | Marine sediment            | 13.981 mg/kg dry weight (d.w.) |
| 4-Chloro-3-methylphenol      | Soil                       | 6.399 mg/kg dry weight (d.w.)  |

## 8.2 Exposure controls

### Engineering measures

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., vacuum conveying from a closed system, packout head with inflatable seal from stationary container, ventilated enclosure, etc.).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Essentially no open handling permitted.

Use closed processing systems or containment technologies.

### Personal protective equipment

Eye/face protection : Wear safety glasses with side shields or goggles.  
If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.  
Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.

Hand protection



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|                          |   |   |
|--------------------------|---|---|
| Material                 | : | Chemical-resistant gloves   |
| Remarks                  | : | Consider double gloving.  |
| Skin and body protection | : | Work uniform or laboratory coat.<br>Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.<br>Use appropriate degowning techniques to remove potentially contaminated clothing. |
| Respiratory protection   | : | If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.<br>Equipment should conform to BS EN 14387   |
| Filter type              | : | Combined particulates, inorganic gas/vapour and organic vapour type (AB-P)  |

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

|  |   |   |
|--|---|---|
| Appearance                                       | : | cream                                   |
| Colour   | : | white                                   |
| Odour  | : | No data available                       |
| Odour 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                                      | : | > 93.3 °C                               |
| Evaporation rate                                 | : | Not applicable                          |
| Flammability (solid, gas)                        | : | Not classified as a flammability hazard |
| Upper explosion limit / Upper flammability limit | : | No data available                       |
| Lower explosion limit / Lower flammability limit | : | No data available                       |
| Vapour pressure                                  | : | No data available                       |
| Relative vapour density                          | : | Not applicable                          |
| Relative density                                 | : | No data available                       |
| Density  | : | No data available                       |
| Solubility(ies)                                  | : |   |
| Water solubility                                 | : | No data available                       |

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|  |   |  |
|--|---|--|
| Partition coefficient: n-octanol/water | : | Not applicable   |
| Auto-ignition temperature              | : | No data available  |
| Decomposition temperature              | : | No data available  |
| Viscosity                              | : |  |
| Viscosity, kinematic                   | : | Not applicable   |
| Explosive properties                   | : | Not explosive  |
| Oxidizing properties                   | : | The substance or mixture is not classified as oxidizing. |

### 9.2 Other information

|                        |   |                |
|------------------------|---|----------------|
| Flammability (liquids) | : | Not applicable |
| Particle size          | : | Not applicable |

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

|                     |   |  |
|---------------------|---|--|
| Hazardous reactions | : | Vapours may form explosive mixture with air.<br>Can react with strong oxidizing agents.<br>Hazardous decomposition products will be formed at elevated temperatures. |
|---------------------|---|--|

### 10.4 Conditions to avoid

|                     |   |             |
|---------------------|---|-------------|
| Conditions to avoid | : | None known. |
|---------------------|---|-------------|

### 10.5 Incompatible materials

|                    |   |                  |
|--------------------|---|------------------|
| Materials to avoid | : | Oxidizing agents |
|--------------------|---|------------------|

### 10.6 Hazardous decomposition products

|                       |   |              |
|-----------------------|---|--------------|
| Thermal decomposition | : | Formaldehyde |
|-----------------------|---|--------------|

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

|  |   |  |
|--|---|--|
| Information on likely routes of exposure | : | Skin contact<br>Ingestion<br>Eye contact |
|--|---|--|

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### Acute toxicity

Not classified based on available information.

### Components:

#### 4-Chloro-3-methylphenol:

Acute oral toxicity : LD50 (Mouse): 600 mg/kg  
Acute inhalation toxicity : LC50 (Rat): > 2.871 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

#### betamethasone:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
LD50 (Mouse): > 4,500 mg/kg  
Acute inhalation toxicity : LC50 (Rat): 0.4 mg/l  
Exposure time: 4 h

#### Decamethylcyclopentasiloxane:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Acute inhalation toxicity : LC50 (Rat): 8.67 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

#### Propylene glycol:

Acute oral toxicity : LD50 (Rat): 22,000 mg/kg  
Acute inhalation toxicity : LC50 (Rat): > 44.9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### Skin corrosion/irritation

Not classified based on available information.

### Components:

#### 4-Chloro-3-methylphenol:

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Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive after 1 to 4 hours of exposure

### betamethasone:

Species : Rabbit  
Result : Mild skin irritation

### Decamethylcyclopentasiloxane:

Species : Rabbit  
Result : No skin irritation

### Propylene glycol:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

### Serious eye damage/eye irritation

Not classified based on available information.

### Components:

#### 4-Chloro-3-methylphenol:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irreversible effects on the eye

### betamethasone:

Species : Rabbit  
Result : No eye irritation

### Decamethylcyclopentasiloxane:

Species : Rabbit  
Result : No eye irritation

### Propylene glycol:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

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### Components:

#### **4-Chloro-3-methylphenol:**

|                 |  |
|-----------------|--|
| Test Type       | : Maximisation Test  |
| Exposure routes | : Skin contact   |
| Species         | : Guinea pig   |
| Assessment      | : Probability or evidence of low to moderate skin sensitisation rate in humans |

#### **betamethasone:**

|                 |                   |
|-----------------|-------------------|
| Exposure routes | : Dermal          |
| Species         | : Guinea pig      |
| Result          | : Weak sensitizer |

#### **Decamethylcyclopentasiloxane:**

|                 |                                 |
|-----------------|---------------------------------|
| Test Type       | : Local lymph node assay (LLNA) |
| Exposure routes | : Skin contact                  |
| Species         | : Mouse                         |
| Result          | : negative                      |

#### **Propylene glycol:**

|                 |                     |
|-----------------|---------------------|
| Test Type       | : Maximisation Test |
| Exposure routes | : Skin contact      |
| Species         | : Guinea pig        |
| Result          | : negative          |

### **Germ cell mutagenicity**

Not classified based on available information.

### Components:

#### **4-Chloro-3-methylphenol:**

|                       |  |
|-----------------------|--|
| Genotoxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative |
|-----------------------|--|

#### **betamethasone:**

|                       |   |
|-----------------------|---|
| Genotoxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative  |
|                       | : Test Type: In vitro mammalian cell gene mutation test<br>Result: negative   |
|                       | : Test Type: Chromosome aberration test in vitro<br>Result: positive  |
| Genotoxicity in vivo  | : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)<br>Species: Mouse<br>Application Route: Oral |

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Result: equivocal

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### Decamethylcyclopentasiloxane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Rat  
Application Route: inhalation (vapour)  
Method: OECD Test Guideline 474  
Result: negative

Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo  
Species: Rat  
Application Route: Inhalation  
Method: OECD Test Guideline 486  
Result: negative

### Propylene glycol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

### Carcinogenicity

Not classified based on available information.

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### Components:

#### **Propylene glycol:**

Species : Rat  
Application Route : Ingestion  
Exposure time : 2 Years  
Result : negative

#### **Reproductive toxicity**

May damage the unborn child.

### Components:

#### **4-Chloro-3-methylphenol:**

Effects on fertility : Test Type: One-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative

Effects on foetal development : Test Type: Reproduction/Developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Result: negative

#### **betamethasone:**

Effects on foetal development : Species: Rabbit  
Application Route: Intramuscular  
Developmental Toxicity: LOAEL: 0.05 mg/kg body weight  
Result: Fetotoxicity, Malformations were observed.

Species: Rat  
Application Route: Subcutaneous  
Developmental Toxicity: LOAEL: 0.42 mg/kg body weight  
Result: Malformations were observed.

Species: Mouse  
Application Route: Intramuscular  
Developmental Toxicity: LOAEL: 1 mg/kg body weight  
Result: Malformations were observed.

Reproductive toxicity - Assessment : Clear evidence of adverse effects on development, based on animal experiments.

#### **Decamethylcyclopentasiloxane:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Method: OPPTS 870.3800  
Result: negative

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Effects on foetal development : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Method: OPPTS 870.3800  
Result: negative

### Propylene glycol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Mouse  
Application Route: Ingestion  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Mouse  
Application Route: Ingestion  
Result: negative

### STOT - single exposure

Not classified based on available information.

### Components:

#### 4-Chloro-3-methylphenol:

Assessment : May cause respiratory irritation.

### STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

### Components:

#### betamethasone:

Target Organs : Pituitary gland, Immune system, muscle, thymus gland, Blood, Adrenal gland  
Assessment : Causes damage to organs through prolonged or repeated exposure.

### Repeated dose toxicity

### Components:

#### 4-Chloro-3-methylphenol:

Species : Rat  
NOAEL : 200 mg/kg  
LOAEL : 400 mg/kg  
Application Route : Ingestion  
Exposure time : 28 Days

#### betamethasone:

Species : Rabbit  
LOAEL : 0.05 %  
Application Route : Skin contact



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Exposure time : 10 - 30 d  
Target Organs : Pituitary gland, Immune system, muscle

Species : Rat  
LOAEL : 0.05 %  
Application Route : Skin contact  
Exposure time : 8 Weeks  
Target Organs : thymus gland

Species : Mouse  
LOAEL : 0.1 %  
Application Route : Skin contact  
Exposure time : 8 Weeks  
Target Organs : thymus gland

Species : Dog  
LOAEL : 0.05 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Target Organs : Blood, thymus gland, Adrenal gland

### Decamethylcyclopentasiloxane:

Species : Rat  
NOAEL : 1,000 mg/kg  
LOAEL : > 1,000 mg/kg  
Application Route : Ingestion  
Method : OECD Test Guideline 408

### Propylene glycol:

Species : Rat, male  
NOAEL : >= 1,700 mg/kg  
Application Route : Ingestion  
Exposure time : 2 yr

### Aspiration toxicity

Not classified based on available information.

### Experience with human exposure

### Components:

#### betamethasone:

Inhalation : Target Organs: Adrenal gland  
Skin contact : Symptoms: Redness, pruritis, Irritation

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **4-Chloro-3-methylphenol:**

|  |   |  |
|--|---|--|
| Toxicity to fish   | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 917 µg/l<br>Exposure time: 96 h  |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Daphnia magna (Water flea)): 1.5 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202  |
| Toxicity to algae/aquatic plants                                       | : | ErC50 (Chlorella pyrenoidosa (algae)): 15 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>EC10 (Chlorella pyrenoidosa (algae)): 2.3 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| M-Factor (Acute aquatic toxicity)                                      | : | 1  |
| Toxicity to microorganisms   | : | EC50 : 22.86 mg/l<br>Exposure time: 60 h   |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 0.32 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Method: OECD Test Guideline 211   |

##### **betamethasone:**

|   |   |  |
|---|---|--|
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Americamysis): > 50 mg/l<br>Exposure time: 96 h  |
| Toxicity to algae/aquatic plants                    | : | EC50 (Pseudokirchneriella subcapitata (green algae)): > 34 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: No toxicity at the limit of solubility<br><br>NOEC (Pseudokirchneriella subcapitata (green algae)): 34 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: No toxicity at the limit of solubility |
| Toxicity to fish (Chronic toxicity)                 | : | NOEC: 0.052 mg/l<br>Exposure time: 32 d<br>Species: Pimephales promelas (fathead minnow)   |

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|  |   |   |
|--|---|---|
|  |   | Method: OECD Test Guideline 210   |
|  |   | NOEC: 0.07 µg/l<br>Exposure time: 219 d<br>Species: <i>Oryzias latipes</i> (Japanese medaka)<br>Method: OECD Test Guideline 229   |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 8 mg/l<br>Exposure time: 21 d<br>Species: <i>Daphnia magna</i> (Water flea)<br>Method: OECD Test Guideline 211  |
| M-Factor (Chronic aquatic toxicity)                                    | : | 1,000   |
| <b>Decamethylcyclopentasiloxane:</b>                                   |   |   |
| Toxicity to fish   | : | LC50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)): > 16 µg/l<br>Exposure time: 96 h<br>Remarks: No toxicity at the limit of solubility   |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 ( <i>Daphnia magna</i> (Water flea)): > 2.9 µg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202<br>Remarks: No toxicity at the limit of solubility                    |
| Toxicity to algae/aquatic plants                                       | : | ErC50 ( <i>Pseudokirchneriella subcapitata</i> (green algae)): > 12 µg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 201<br>Remarks: No toxicity at the limit of solubility |
|  |   | EC10 ( <i>Pseudokirchneriella subcapitata</i> (green algae)): > 12 µg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 201<br>Remarks: No toxicity at the limit of solubility  |
| Toxicity to microorganisms   | : | EC50 : > 2,000 mg/l<br>Exposure time: 3 h<br>Method: 88/302/EC  |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC: 14 µg/l<br>Exposure time: 90 d<br>Species: <i>Oncorhynchus mykiss</i> (rainbow trout)<br>Method: OECD Test Guideline 210<br>Remarks: No toxicity at the limit of solubility     |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 15 µg/l<br>Exposure time: 21 d<br>Species: <i>Daphnia magna</i> (Water flea)<br>Method: OECD Test Guideline 211<br>Remarks: No toxicity at the limit of solubility              |

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### Propylene glycol:

|  |   |   |
|--|---|---|
| Toxicity to fish   | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l<br>Exposure time: 96 h                                      |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Ceriodaphnia dubia (water flea)): 18,340 mg/l<br>Exposure time: 48 h  |
| Toxicity to algae/aquatic plants                                       | : | ErC50 (Skeletonema costatum (marine diatom)): 19,300 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| Toxicity to microorganisms   | : | NOEC (Pseudomonas putida): > 20,000 mg/l<br>Exposure time: 18 h   |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 13,020 mg/l<br>Exposure time: 7 d<br>Species: Ceriodaphnia dubia (water flea)                                 |

## 12.2 Persistence and degradability

### Components:

#### 4-Chloro-3-methylphenol:

|                  |   |  |
|------------------|---|--|
| Biodegradability | : | Result: Readily biodegradable.<br>Biodegradation: 78 %<br>Exposure time: 15 d<br>Method: OECD Test Guideline 301 |
|------------------|---|--|

#### Decamethylcyclopentasiloxane:

|                  |   |  |
|------------------|---|--|
| Biodegradability | : | Result: Not readily biodegradable.<br>Biodegradation: 0.14 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 310 |
|------------------|---|--|

#### Propylene glycol:

|                  |   |   |
|------------------|---|---|
| Biodegradability | : | Result: Readily biodegradable.<br>Biodegradation: 98.3 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301F |
|------------------|---|---|

## 12.3 Bioaccumulative potential

### Components:

#### 4-Chloro-3-methylphenol:

|  |   |  |
|--|---|--|
| Bioaccumulation                        | : | Species: Cyprinus carpio (Carp)<br>Bioconcentration factor (BCF): 5.5 - 13 |
| Partition coefficient: n-octanol/water | : | log Pow: 0.477   |

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### betamethasone:

Partition coefficient: n-octanol/water : log Pow: 2.11

### Decamethylcyclopentasiloxane:

Bioaccumulation : Species: Pimephales promelas (fathead minnow)  
Bioconcentration factor (BCF): 7,060 - 13,300  
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 8.023

### Propylene glycol:

Partition coefficient: n-octanol/water : log Pow: -1.07  
Method: Regulation (EC) No. 440/2008, Annex, A.8

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

#### Components:

##### Decamethylcyclopentasiloxane:

Assessment : Substance is persistent, bioaccumulative, and toxic (PBT).  
: Substance is very persistent and very bioaccumulative (vPvB).

### 12.6 Other adverse effects

#### Product:

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.  
Do not dispose of waste into sewer.

Contaminated packaging : Empty containers should be taken to an approved waste han-

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ding site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

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### SECTION 14: Transport information

#### 14.1 UN number

**ADN** : UN 3077  
**ADR** : UN 3077  
**RID** : UN 3077  
**IMDG** : UN 3077  
**IATA** : UN 3077

#### 14.2 UN proper shipping name

**ADN** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(betamethasone)  
**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(betamethasone)  
**RID** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(betamethasone)  
**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(betamethasone)  
**IATA** : Environmentally hazardous substance, solid, n.o.s.  
(betamethasone)

#### 14.3 Transport hazard class(es)

|             | Class | Subsidiary risks |
|-------------|-------|------------------|
| <b>ADN</b>  | : 9   |                  |
| <b>ADR</b>  | : 9   |                  |
| <b>RID</b>  | : 9   |                  |
| <b>IMDG</b> | : 9   |                  |
| <b>IATA</b> | : 9   |                  |

#### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9  
**ADR**  
Packing group : III

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Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

### RID

Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

### IMDG

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

### IATA (Cargo)

Packing instruction (cargo aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Miscellaneous

### IATA (Passenger)

Packing instruction (passenger aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Miscellaneous

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### IATA (Passenger)

Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

|   |                       |  |
|---|-----------------------|--|
| UK REACH List of restrictions (Annex 17)  | :                     | Conditions of restriction for the following entries should be considered:<br>Decamethylcyclopentasiloxane<br>(Number on list 70) |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation                             | :                     | Decamethylcyclopentasiloxane   |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) | :                     | Not applicable   |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer   | :                     | Not applicable   |
| UK REACH List of substances subject to authorisation (Annex XIV)  | :                     | Not applicable   |
| GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation                           | :                     | Not applicable   |
| Control of Major Accident Hazards Regulations 2015 (COMAH)  | :                     |  |
| E1  | ENVIRONMENTAL HAZARDS | Quantity 1<br>100 t      Quantity 2<br>200 t   |

#### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

#### The components of this product are reported in the following inventories:

|       |   |                |
|-------|---|----------------|
| AICS  | : | not determined |
| DSL   | : | not determined |
| IECSC | : | not determined |

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.



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### Full text of H-Statements

H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H330 : Fatal if inhaled.  
H335 : May cause respiratory irritation.  
H360D : May damage the unborn child.  
H372 : Causes damage to organs through prolonged or repeated exposure.  
  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.  
H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Dam. : Serious eye damage  
Repr. : Reproductive toxicity  
Skin Corr. : Skin corrosion  
Skin Sens. : Skin sensitisation  
STOT RE : Specific target organ toxicity - repeated exposure  
STOT SE : Specific target organ toxicity - single exposure  
2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work  
  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
2004/37/EC / STEL : Short term exposure limit  
2004/37/EC / TWA : Long term exposure limit  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)  
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of

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| Version | Revision Date: | SDS Number:   | Date of last issue: 30.09.2023  |
| 5.0     | 06.04.2024     | 9373303-00007 | Date of first issue: 27.08.2021 |

Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

|                   |       |
|-------------------|-------|
| Repr. 1B          | H360D |
| STOT RE 1         | H372  |
| Aquatic Chronic 1 | H410  |

### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |
| Calculation method |

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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