

# Medicines & Healthcare products Regulatory Agency

**British** Pharmacopoeia

**Quality standards** 

## **SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

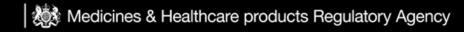
Revision date 05-Jun-2024

**Revision Number** 2

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

| 1.1. Product identifier  |   |
|--|---|
| Product Code(s)  | CAT 468   |
| Product Name   | Dopamine Hydrochloride  |
| Form   | Not applicable  |
|  | mber is given for this substance because it is under the threshold in REACH Article gistration requirements according to REACH Title II |
| EC No (EU Index No)  | 200-527-8   |
| CAS No.  | 62-31-7   |
| Chemical name  | Dopamine hydrochloride  |
| Pure substance/mixture   | Substance   |
| Formula  | C8 H12 CI N O2  |
| Molecular weight   | 189.64  |
| 1.2. Relevant identified uses of the   | e substance or mixture and uses advised against   |
| Recommended use  | Laboratory use  |
| Uses advised against   | No information available  |
| 1.3. Details of the supplier of the s  | afety data sheet  |
| Supplier   |   |
| British Pharmacopoeia Commission<br>MHRA<br>10 South Colonnade<br>Canary Wharf<br>London E14 4PU<br>United Kingdom |   |
| Tel : +44 (0)20 3080 6561  |   |

eMail: bpcrs@mhra.gov.uk





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### CAT 468 - Dopamine Hydrochloride

For further information, please contact

E-mail address

bpcrs@mhra.gov.uk

#### 1.4. Emergency telephone number

**Emergency Telephone** 

+44 (0)20 3080 6561 (Monday - Friday: 8am - 5pm)

| Emergency Telephone - §45 - (EC)1272/2008 |                          |  |
|---|--------------------------|--|
| Europe                                    | 112                      |  |
| Austria                                   | No information available |  |
| Bulgaria                                  |                          |  |
| Croatia                                   |                          |  |
| Cyprus                                    |                          |  |
| Czech Republic                            |                          |  |
| Denmark                                   |                          |  |
| France                                    |                          |  |
| Hungary                                   |                          |  |
| Ireland                                   |                          |  |
| Italy                                     |                          |  |
| Lithuania                                 |                          |  |
| Luxembourg                                |                          |  |
| Netherlands                               |                          |  |
| Norway                                    |                          |  |
| Portugal                                  |                          |  |
| Romania                                   |                          |  |
| Slovakia                                  |                          |  |
| Slovenia                                  |                          |  |
| Spain                                     |                          |  |
| Sweden                                    |                          |  |
| Switzerland                               |                          |  |

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to

Regulation (EC) No. 1272/2008 [CLP]

| Reproductive toxicity  | Category 2 - (H361) |
|------------------------|---------------------|
| Acute aquatic toxicity | Category 1 - (H400) |





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Category 1 - (H410)

### CAT 468 - Dopamine Hydrochloride

Chronic aquatic toxicity

2.2. Label elements

Contains Dopamine hydrochloride



Warning

#### Hazard statements

H361 - Suspected of damaging fertility or the unborn child H410 - Very toxic to aquatic life with long lasting effects

#### Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P391 - Collect spillage

P501 - Dispose of contents/ container to an approved waste disposal plant

#### 2.3. Other hazards

No information available.

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

| Endocrine Disruptor Information | his product does not contain any known or suspe | cted endocrine disruptors.         |
|---------------------------------|---|------------------------------------|
| Chemical name                   | EU - REACH (1907/2006) - Article 59(1)          | EU - REACH (1907/2006) - Endocrine |
|                                 | - Candidate List of Substances of Very          | Disruptor Assessment List of       |
|                                 | High Concern (SVHC) for Authorisation           | Substances                         |
| Dopamine hydrochloride          | -   | -                                  |

## SECTION 3: Composition/information on ingredients





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### 3.1 Substances

| Chemical name                        | Weight-% | REACH registration<br>number |           | Classification according<br>to Regulation (EC) No.<br>1272/2008 [CLP]      | M-Factor | M-Factor<br>(long-term) |
|--------------------------------------|----------|------------------------------|-----------|--|----------|-------------------------|
| Dopamine<br>hydrochloride<br>62-31-7 | 100      | _                            | 200-527-8 | Repr. 2 (H361)<br>Aquatic Acute 1<br>(H400)<br>Aquatic Chronic 1<br>(H410) |          |                         |

#### Full text of H- and EUH-phrases: see section 16

#### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

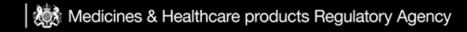
| Chemical name                     | Oral LD50 mg/kg | Dermal LD50       | Inhalation LC50 - 4     | Inhalation LC50 - 4  | Inhalation LC50 - 4 |
|-----------------------------------|-----------------|-------------------|-------------------------|----------------------|---------------------|
|                                   |                 | mg/kg             | hour - dust/mist - mg/L | hour - vapour - mg/L | hour - gas - ppm    |
| Dopamine hydrochloride<br>62-31-7 | 2859            | No data available | No data available       | No data available    | No data available   |

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

| General advice | Show this safety data sheet to the doctor in attendance.  |
|----------------|---|
| Inhalation     | Remove to fresh air.  |
| Eye contact    | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor. |
| Skin contact   | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a                         |





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|  | doctor.   |  |
|--|---|--|
| Ingestion                                  | Rinse mouth.  |  |
| 4.2. Most important symptoms and           | effects, both acute and delayed   |  |
| Symptoms                                   | No information available.   |  |
| 4.3. Indication of any immediate me        | dical attention and special treatment needed  |  |
| Note to doctors                            | Treat symptomatically.  |  |
| SECTION 5: Firefighting m                  | easures   |  |
| 5.1. Extinguishing media                   |   |  |
| Suitable Extinguishing Media               | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |  |
| Large Fire                                 | CAUTION: Use of water spray when fighting fire may be inefficient.                                      |  |
| Unsuitable extinguishing media             | Do not scatter spilled material with high pressure water streams.                                       |  |
| 5.2. Special hazards arising from th       | e substance or mixture  |  |
| Specific hazards arising from the chemical | No information available.   |  |

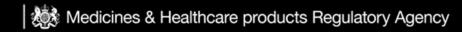
5.3. Advice for firefighters

Special protective equipment and<br/>precautions for fire-fightersFirefighters should wear self-contained breathing apparatus and full firefighting turnout gear.<br/>Use personal protection equipment.

## SECTION 6: Accidental release measures

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

| Personal precautions     | Ensure adequate ventilation.                      |
|--------------------------|---|
| For emergency responders | Use personal protection recommended in Section 8. |





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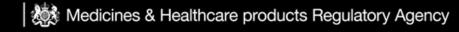
| 6.2. Environmental precautions |
|--------------------------------|
|--------------------------------|

| Environmental precautions                                 | See Section 12 for additional Ecological Information.                                |  |
|---|--|--|
| 6.3. Methods and material for containment and cleaning up |  |  |
| Methods for containment                                   | Prevent further leakage or spillage if safe to do so.                                |  |
| Methods for cleaning up                                   | Take up mechanically, placing in appropriate containers for disposal.                |  |
| Prevention of secondary hazards                           | Clean contaminated objects and areas thoroughly observing environmental regulations. |  |
| 6.4. Reference to other sections                          |  |  |
| Reference to other sections                               | See section 8 for more information. See section 13 for more information.             |  |

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

| Advice on safe handling               | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.  |
|---------------------------------------|--|
| General hygiene considerations        | Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. |
| 7.2. Conditions for safe storage, inc | cluding any incompatibilities  |
| Storage Conditions                    | Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA. Store locked up.  |
| 7.3. Specific end use(s)              |  |
| Risk Management Methods (RMM)         | The information required is contained in this Safety Data Sheet.   |





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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Exposure Limits** 

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### **Biological occupational exposure limits**

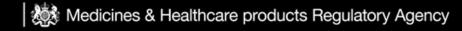
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

| Derived No Effect Level (DNEL)    | No information available. |
|-----------------------------------|---------------------------|
| Predicted No Effect Concentration | No information available. |
| (PNEC)                            |                           |

8.2. Exposure controls

Personal protective equipment

| Eye/face protection             | Avoid contact with eyes. Wear safety glasses with side shields (or goggles).   |
|---------------------------------|--|
| Hand protection                 | The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective nitrile rubber gloves. Wear suitable gloves.   |
| Skin and body protection        | Wear suitable protective clothing.   |
| Respiratory protection          | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.   |
| General hygiene considerations  | Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. |
| Environmental exposure controls | Do not allow into any sewer, on the ground or into any body of water.  |





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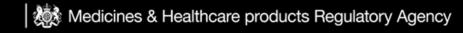
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## CAT 468 - Dopamine Hydrochloride

### SECTION 9: Physical and chemical properties

| 9.1. Information on basic physical a   | and chemical properties          |                          |
|--|----------------------------------|--------------------------|
| Physical state                         | Solid                            |                          |
| Appearance                             | Solid                            |                          |
| Colour                                 | white                            |                          |
| Odour                                  | No information available.        |                          |
| Odour threshold                        | No information available         |                          |
|  |                                  |                          |
| Property_                              | Values                           | Remarks • Method         |
| Melting point / freezing point         | 249 °C                           | None known               |
| Initial boiling point and boiling rang | eNo data available               | None known               |
| Flammability                           | No data available                | None known               |
| Flammability Limit in Air              |                                  | None known               |
| Upper flammability or explosive        | No data available                |                          |
| limits                                 |                                  |                          |
| Lower flammability or explosive        | No data available                |                          |
| limits                                 |                                  |                          |
| Flash point                            | No data available                | None known               |
| Autoignition temperature               | No data available                | None known               |
| Decomposition temperature              |                                  | None known               |
| рН                                     | No data available                | None known               |
| pH (as aqueous solution)               | No data available                | No information available |
| Kinematic viscosity                    | No data available                | None known               |
| Dynamic viscosity                      | No data available                | None known               |
| Water solubility                       | Slightly soluble                 | None known               |
| Solubility(ies)                        | slightly soluble, DMSO, Methanol |                          |
| Partition coefficient                  | No data available                | None known               |
| Vapour pressure                        | No data available                | None known               |
| Relative density                       | 1.4                              | None known               |
| Bulk density                           | No data available                |                          |
| Liquid Density                         | No data available                |                          |
| Relative vapour density                | No data available                | None known               |
| Particle characteristics               |                                  |                          |
| Particle Size                          | No information available         |                          |
| Particle Size Distribution             | No information available         |                          |
|  |                                  |                          |
| 9.2. Other information                 | 189.64                           |                          |
| Molecular weight<br>Molecular formula  | 189.64<br>C8 H12 CI N O2         |                          |
|  |                                  |                          |

9.2.1. Information with regards to physical hazard classes Not applicable





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9.2.2. Other safety characteristics No information available

## SECTION 10: Stability and reactivity

| 10.1. Reactivity  |   |
|---|---|
| Reactivity  | No information available.                 |
| 10.2. Chemical stability  |   |
| Stability   | Stable under normal conditions.           |
| Explosion data<br>Sensitivity to mechanical impact<br>Sensitivity to static discharge | t None.<br>None.                          |
| 10.3. Possibility of hazardous reacti   | ons                                       |
| Possibility of hazardous reactions  | None under normal processing.             |
| 10.4. Conditions to avoid   |   |
| Conditions to avoid   | None known based on information supplied. |
| 10.5. Incompatible materials  |   |

. . . . . . . . . .

## Hazardous decomposition products None known based on information supplied.

## **SECTION 11: Toxicological information**

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

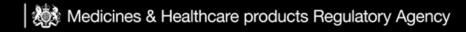
### Information on likely routes of exposure

### **Product Information**

Incompatible materials

Inhalation Specific test data for the substance or mixture is not available.

None known based on information supplied.





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| Eye contact  | Specific test data for the substance or mixture is not available. |  |
|--|---|--|
| Ingestion  | Specific test data for the substance or mixture is not available. |  |
| Symptoms related to the physical, chemical and toxicological characteristics |   |  |
| Symptoms   | No information available.   |  |
| Numerical measures of toxicity   |   |  |
|  |   |  |

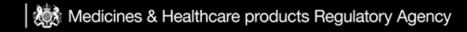
Acute toxicity

### **Component Information**

| Chemical name          | Oral LD50          | Dermal LD50 | Inhalation LC50 |
|------------------------|--------------------|-------------|-----------------|
| Dopamine hydrochloride | = 2859 mg/kg (Rat) |             |                 |

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

| Skin corrosion/irritation         | Based on available data, the classification criteria are not met.  |
|-----------------------------------|--|
| Serious eye damage/eye irritation | No information available.  |
| Respiratory or skin sensitisation | No information available.  |
| Germ cell mutagenicity            | No information available.  |
| Carcinogenicity                   | No information available.  |
| Reproductive toxicity             | Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child. |





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| STOT - single exposure             | No information available. |  |
|------------------------------------|---------------------------|--|
| STOT - repeated exposure           | No information available. |  |
| Aspiration hazard                  | No information available. |  |
| 11.2. Information on other hazards |                           |  |
| 11.2.1. Endocrine disrupting prope | rties                     |  |
| Endocrine disrupting properties    | No information available. |  |
|                                    |                           |  |

11.2.2. Other information

Other adverse effects

## **SECTION 12: Ecological information**

### 12.1. Toxicity

#### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

No information available.

| Chemical name          | Algae/aquatic plants           | Fish | Toxicity to<br>microorganisms | Crustacea                                  |
|------------------------|--------------------------------|------|-------------------------------|--|
| Dopamine hydrochloride | IC50: < 1 mg/L (72h,<br>Algae) | -    | -                             | EC50: = 24.5 mg/L (48h,<br>Daphnia magna ) |

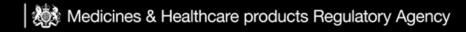
#### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential

Bioaccumulation No information available.

| 12.4. WODINLY III SOI | 12.4. | Mobility in soil |  |
|-----------------------|-------|------------------|--|
|-----------------------|-------|------------------|--|





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Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

#### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

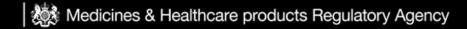
#### 13.1. Waste treatment methods

| Waste from residues/unused<br>products | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
|--|---|
| Contaminated packaging                 | Do not reuse empty containers.  |

## **SECTION 14: Transport information**

| 14.1 UN number or ID number       | UN3077   |
|-----------------------------------|--|
| 14.2 UN proper shipping name      | Environmentally hazardous substances, solid, n.o.s. (Dopamine hydrochloride)                 |
| 14.3 Transport hazard class(es)   | 9  |
| 14.4 Packing group                |  |
| Description                       | UN3077, Environmentally hazardous substances, solid, n.o.s. (Dopamine hydrochloride), 9, III |
| 14.5 Environmental hazards        | Yes  |
| 14.6 Special precautions for user |  |
| Special Provisions                | A97, A158, A179, A197, A215  |
| ERG Code                          | 9L   |
| IMDG                              |  |
| 14.1 UN number or ID number       | UN3077   |

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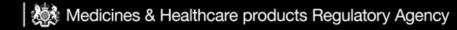
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| <ul> <li>14.2 UN proper shipping name</li> <li>14.3 Transport hazard class(es)</li> <li>14.4 Packing group<br/>Description</li> <li>14.5 Marine pollutant<br/>Environmental hazards</li> <li>14.6 Special precautions for user<br/>Special Provisions<br/>EmS-No.</li> <li>14.7 Maritime transport in bulk<br/>according to IMO instruments</li> </ul>   | Environmentally hazardous substances, solid, n.o.s. (Dopamine hydrochloride)<br>9<br>III<br>UN3077, Environmentally hazardous substances, solid, n.o.s. (Dopamine hydrochloride),<br>9, III, Marine pollutant<br>P<br>Yes<br>274, 335, 966, 967, 969<br>F-A, S-F No information available<br>No information available |
|--|---|
| RID14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group<br>Description14.5Environmental hazards14.6Special precautions for user<br>Special Provisions<br>Classification code   | UN3077<br>Environmentally hazardous substances, solid, n.o.s. (Dopamine hydrochloride)<br>9<br>III<br>UN3077, Environmentally hazardous substances, solid, n.o.s. (Dopamine hydrochloride),<br>9, III<br>Yes<br>274, 335, 375, 601<br>M7  |
| <ul> <li><u>ADR</u></li> <li>14.1 UN number or ID number</li> <li>14.2 UN proper shipping name</li> <li>14.3 Transport hazard class(es)</li> <li>14.4 Packing group<br/>Description</li> <li>14.5 Environmental hazards</li> <li>14.6 Special precautions for user<br/>Special Provisions<br/>Classification code<br/>Tunnel restriction code</li> </ul> | UN3077<br>Environmentally hazardous substances, solid, n.o.s. (Dopamine hydrochloride)<br>9<br>III<br>UN3077, Environmentally hazardous substances, solid, n.o.s. (Dopamine hydrochloride),<br>9, III, (-)<br>Yes<br>274, 335, 601, 375<br>M7<br>(-)  |

## **SECTION 15: Regulatory information**

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





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#### National regulations

Germany

Water hazard class (WGK)

strongly hazardous to water (WGK 3)

Poland

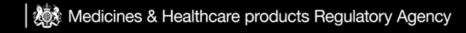
SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650) . Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)





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### CAT 468 - Dopamine Hydrochloride

**DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors** Not applicable

Persistent Organic Pollutants Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

| International Inventorie | S |
|--------------------------|---|
| TSCA                     |   |

|               | listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory                      |  |
|---------------|--|--|
|               | Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb 2019, as                 |  |
|               | amended Feb 2021."   |  |
| DSL/NDSL      | Contact supplier for inventory compliance status   |  |
| EINECS/ELINCS | Contact supplier for inventory compliance status   |  |
| ENCS          | Contact supplier for inventory compliance status   |  |
| IECSC         | Contact supplier for inventory compliance status   |  |
| KECL          | Contact supplier for inventory compliance status   |  |
| PICCS         | Contact supplier for inventory compliance status   |  |
| AIIC          | Contact supplier for inventory compliance status   |  |
| KECL<br>PICCS | Contact supplier for inventory compliance status<br>Contact supplier for inventory compliance status |  |

LGC, to the best of its ability, has confirmed that the chemical substances in this product are

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

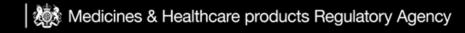
**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment





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**Chemical Safety Report** 

A Chemical Safety Assessment is not required for this substance

## **SECTION 16: Other information**

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H361 - Suspected of damaging fertility or the unborn child

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

#### Legend

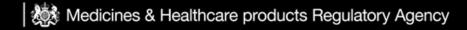
SVHC: Substances of Very High Concern for Authorisation:

#### Legend Section 8: Exposure controls/personal protection

| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
|---------|-----------------------------|------|----------------------------------|
| Ceiling | Maximum limit value         | Sk*  | Skin designation                 |

| Classification procedure  |                    |  |  |  |
|---|--------------------|--|--|--|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |  |  |  |
| Acute oral toxicity   | Calculation method |  |  |  |
| Acute dermal toxicity   | Calculation method |  |  |  |
| Acute inhalation toxicity - gas                                 | Calculation method |  |  |  |
| Acute inhalation toxicity - Vapour                              | Calculation method |  |  |  |
| Acute inhalation toxicity - dust/mist                           | Calculation method |  |  |  |
| Skin corrosion/irritation                                       | Calculation method |  |  |  |
| Serious eye damage/eye irritation                               | Calculation method |  |  |  |
| Respiratory sensitisation                                       | Calculation method |  |  |  |
| Skin sensitisation  | Calculation method |  |  |  |
| Mutagenicity  | Calculation method |  |  |  |
| Carcinogenicity   | Calculation method |  |  |  |
| STOT - single exposure  | Calculation method |  |  |  |
| STOT - repeated exposure  | Calculation method |  |  |  |
| Acute aquatic toxicity  | Calculation method |  |  |  |
| Chronic aquatic toxicity  | Calculation method |  |  |  |
| Aspiration hazard   | Calculation method |  |  |  |
| Ozone   | Calculation method |  |  |  |

Key literature references and sources for data used to compile the SDS





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Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set World Health Organization

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. British Pharmacopoeia Commission Office makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be heldresponsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise. End of Safety Data Sheet