

## Carbimazole Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 2024/09/28  |
| 12.0    | 2025/04/14     | 4098654-00020 | Date of first issue: 2019/03/22 |

## 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name : Carbimazole Formulation

Other means of identification : Vidalta 10 (A010622)  
Vidalta 15 (A011752)  
VIDALTA 15 MG TABLETS FOR CATS (66165)  
VIDALTA 10 MG TABLETS FOR CATS (66158)

## Supplier's company name, address and phone number

Company name of supplier : MSD

Address : 1-13-12, Kudan-kita, Chiyoda-ku, Tokyo, Japan

Telephone : 03-6272-1099

E-mail address : EHSDATASTEWARD@msd.com

Emergency telephone number : +1-908-423-6000

## Recommended use of the chemical and restrictions on use

Recommended use : Veterinary product

Restrictions on use : Not applicable

## 2. HAZARDS IDENTIFICATION

## GHS classification of chemical product

Reproductive toxicity : Category 1A

Specific target organ toxicity - repeated exposure (Dermal) : Category 2 (Thyroid, Adrenal gland, Testis)

Short-term (acute) aquatic hazard : Category 2

Long-term (chronic) aquatic hazard : Category 2

## GHS label elements

Hazard pictograms :  

Signal word : Danger

Hazard statements : H360 May damage fertility or the unborn child.

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H373 May cause damage to organs (Thyroid, Adrenal gland, Testis) through prolonged or repeated exposure in contact with skin.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust.

P273 Avoid release to the environment.

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

**Response:**

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

P391 Collect spillage.

**Storage:**

P405 Store locked up.

**Disposal:**

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

**Other hazards which do not result in classification**

Important symptoms and outlines of the emergency assumed

: Dust contact with the eyes can lead to mechanical irritation.  
Contact with dust can cause mechanical irritation or drying of the skin.  
May form explosive dust-air mixture during processing, handling or other means.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

**Components**

| Chemical name | CAS-No.    | Concentration (% w/w) | ENCS No. |
|---------------|------------|-----------------------|----------|
| Cellulose     | 9004-34-6  | $\geq 40$ - $< 50$    |          |
| Carbimazole   | 22232-54-8 | $\geq 10$ - $< 20$    | -        |
| Talc          | 14807-96-6 | $\geq 1$ - $< 10$     | 1-468    |

### 4. 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

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|   |   |
|---|---|
|   | advice.   |
| If inhaled  | : If inhaled, remove to fresh air.<br>Get medical attention.  |
| In case of skin contact                                     | : In case of contact, immediately flush skin with soap and plenty of water.<br>Remove contaminated clothing and shoes.<br>Get medical attention.<br>Wash clothing before reuse.<br>Thoroughly clean shoes before reuse.   |
| In case of eye contact                                      | : If in eyes, rinse well with water.<br>Get medical attention if irritation develops and persists.  |
| If swallowed  | : If swallowed, DO NOT induce vomiting.<br>Get medical attention.<br>Rinse mouth thoroughly with water.   |
| Most important symptoms and effects, both acute and delayed | : Contact with dust can cause mechanical irritation or drying of the skin.<br>Dust contact with the eyes can lead to mechanical irritation.<br>May damage fertility or the unborn child.<br>May cause damage to organs through prolonged or repeated exposure in contact with skin. |
| 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).   |
| Notes to physician  | : Treat symptomatically and supportively.   |

## 5. FIREFIGHTING MEASURES

|   |   |
|---|---|
| Suitable extinguishing media                  | : Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical  |
| Unsuitable extinguishing media                | : None known.   |
| Specific hazards during fire-fighting         | : Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.<br>Exposure to combustion products may be a hazard to health.                   |
| Hazardous combustion products                 | : Carbon oxides   |
| Specific extinguishing methods                | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area. |
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment.  |

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**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
- Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.  
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).  
Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.  
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.

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**7. HANDLING AND STORAGE****Handling**

- Technical measures : Static electricity may accumulate and ignite suspended dust causing an explosion.  
Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
- 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.  
Do not swallow.  
Avoid contact with eyes.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Keep container tightly closed.  
Minimize dust generation and accumulation.  
Keep container closed when not in use.  
Keep away from heat and sources of ignition.  
Take precautionary measures against static discharges.  
Take care to prevent spills, waste and minimize release to the environment.

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Avoidance of contact : Oxidizing agents

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.

**Storage**

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

Materials to avoid : Do not store with the following product types:  
Strong oxidizing agents

Packaging material : Unsuitable material: None known.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Threshold limit value and permissible exposure limits for each component in the work environment**

| Components  | CAS-No.    | Value type<br>(Form of exposure)         | Control parameters / Concentration standard / Permissible concentration | Basis          |
|-------------|------------|--|---|----------------|
| Cellulose   | 9004-34-6  | TWA                                      | 10 mg/m <sup>3</sup>  | ACGIH          |
| Carbimazole | 22232-54-8 | TWA                                      | 20 µg/m <sup>3</sup> (OEB 3)  | Internal       |
|             |            | Wipe limit                               | 200 µg/100 cm <sup>2</sup>  | Internal       |
| Talc        | 14807-96-6 | OEL-M<br>(Respirable particulate matter) | 1 mg/m <sup>3</sup>   | JP OEL<br>JSOH |
|             |            | OEL-M (Total particulate matter)         | 4 mg/m <sup>3</sup>   | JP OEL<br>JSOH |
|             |            | TWA (Respirable particulate matter)      | 2 mg/m <sup>3</sup>   | ACGIH          |

**Engineering measures** : All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.  
Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of

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the compound to uncontrolled areas (e.g., open-face containment devices).  
Minimize open handling.

**Personal protective equipment**

|                          |   |  |
|--------------------------|---|--|
| Respiratory protection   | : | If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.   |
| Filter type              | : | Particulates type  |
| Hand protection          | : |  |
| Material                 | : | Chemical-resistant gloves  |
| Remarks                  | : | Consider double gloving.   |
| Eye protection           | : | Wear safety glasses with side shields or goggles.<br>If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.<br>Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. |
| 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.                    |

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|  |   |   |
|--|---|---|
| Physical state   | : | tablet, powder  |
| Colour   | : | pink  |
| Odour  | : | No data available   |
| Odour Threshold  | : | No data available   |
| Melting point/freezing point   | : | No data available   |
| Boiling point, initial boiling point and boiling range               | : | No data available   |
| Flammability (solid, gas)  | : | May form explosive dust-air mixture during processing, handling or other means. |
| Flammability (liquids)   | : | Not applicable  |
| Lower explosion limit and upper explosion limit / flammability limit | : |   |
| Upper explosion limit / Upper flammability limit                     | : | No data available   |
| Lower explosion limit /  | : | No data available   |

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Lower flammability limit

|  |   |  |
|--|---|--|
| Flash point                            | : | No data available  |
| Decomposition temperature              | : | No data available  |
| pH                                     | : | No data available  |
| Evaporation rate                       | : | Not applicable   |
| Auto-ignition temperature              | : | No data available  |
| Viscosity                              |   |  |
| Viscosity, kinematic                   | : | Not applicable   |
| Solubility(ies)                        |   |  |
| Water solubility                       | : | No data available  |
| Partition coefficient: n-octanol/water | : | Not applicable   |
| Vapour pressure                        | : | Not applicable   |
| Density and / or relative density      |   |  |
| Relative density                       | : | No data available  |
| Density                                | : | No data available  |
| Relative vapour density                | : | Not applicable   |
| Explosive properties                   | : | Not explosive  |
| Oxidizing properties                   | : | The substance or mixture is not classified as oxidizing. |
| Molecular weight                       | : | No data available  |
| Particle characteristics               |   |  |
| Particle size                          | : | No data available  |

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**10. STABILITY AND REACTIVITY**

|                                    |   |  |
|------------------------------------|---|--|
| Reactivity                         | : | Not classified as a reactivity hazard.   |
| Chemical stability                 | : | Stable under normal conditions.  |
| Possibility of hazardous reactions | : | May form explosive dust-air mixture during processing, handling or other means.<br>Can react with strong oxidizing agents. |
| Conditions to avoid                | : | Heat, flames and sparks.<br>Avoid dust formation.  |
| Incompatible materials             | : | Oxidizing agents   |

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Hazardous decomposition products : No hazardous decomposition products are known.

**11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

**Acute toxicity**

Not classified based on available information.

**Components:****Cellulose:**

|                           |  |
|---------------------------|--|
| Acute oral toxicity       | : LD50 (Rat): > 5,000 mg/kg  |
| Acute inhalation toxicity | : LC50 (Rat): > 5.8 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist |
| Acute dermal toxicity     | : LD50 (Rabbit): > 2,000 mg/kg   |

**Carbimazole:**

|                           |  |
|---------------------------|--|
| Acute oral toxicity       | : LD50 (Rat): 2,250 mg/kg<br>Assessment: The substance or mixture has no acute oral toxicity<br><br>LD50 (Mouse): 860 mg/kg<br>Remarks: Based on data from similar materials |
| Acute inhalation toxicity | : Remarks: No data available   |
| Acute dermal toxicity     | : Remarks: No data available   |

**Talc:**

|                     |  |
|---------------------|--|
| Acute oral toxicity | : LD50 (Rat): > 5,000 mg/kg<br>Remarks: Based on data from similar materials |
|---------------------|--|

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****Carbimazole:**

|         |                     |
|---------|---------------------|
| Remarks | : No data available |
|---------|---------------------|

**Talc:**

|         |          |
|---------|----------|
| Species | : Rabbit |
|---------|----------|



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||Result : No skin irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:****Carbimazole:**

||Remarks : No data available

**Talc:**

||Species : Rabbit  
||Result : No eye irritation

**Respiratory or skin sensitisation****Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:****Carbimazole:**

||Remarks : No data available

**Talc:**

||Exposure routes : Skin contact  
||Species : Humans  
||Result : negative

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****Cellulose:**

||Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
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: Mouse  
Application Route: Ingestion  
Result: negative

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**Carbimazole:**

|                       |   |
|-----------------------|---|
| Genotoxicity in vitro | : Test Type: Chromosome aberration test in vitro<br>Result: positive<br>Remarks: Based on data from similar materials   |
| Genotoxicity in vivo  | : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)<br>Species: Mouse<br>Application Route: Subcutaneous<br>Result: equivocal<br>Remarks: Based on data from similar materials |
|                       | : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)<br>Species: Mouse<br>Application Route: Subcutaneous<br>Result: negative<br>Remarks: Based on data from similar materials                  |

**Talc:**

|                       |  |
|-----------------------|--|
| Genotoxicity in vitro | : Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)<br>Result: negative      |
| Genotoxicity in vivo  | : Test Type: Chromosome aberration test in vitro<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative |

**Carcinogenicity**

Not classified based on available information.

**Components:****Cellulose:**

|                   |             |
|-------------------|-------------|
| Species           | : Rat       |
| Application Route | : Ingestion |
| Exposure time     | : 72 weeks  |
| Result            | : negative  |

**Carbimazole:**

|                   |  |
|-------------------|--|
| Species           | : Mouse                                |
| Application Route | : Oral                                 |
| Result            | : positive                             |
| Remarks           | : Based on data from similar materials |

|                   |  |
|-------------------|--|
| Species           | : Rat                                  |
| Application Route | : Oral                                 |
| Result            | : positive                             |
| Remarks           | : Based on data from similar materials |

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**Talc:**

|                   |                               |
|-------------------|-------------------------------|
| Species           | : Mouse                       |
| Application Route | : inhalation (dust/mist/fume) |
| Exposure time     | : 2 Years                     |
| Result            | : negative                    |

**Reproductive toxicity**

May damage fertility or the unborn child.

**Components:****Cellulose:**

|                               |   |
|-------------------------------|---|
| Effects on fertility          | : Test Type: One-generation reproduction toxicity study<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative |
| Effects on foetal development | : Test Type: Fertility/early embryonic development<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative      |

**Carbimazole:**

|                                    |   |
|------------------------------------|---|
| Reproductive toxicity - Assessment | : May damage fertility or the unborn child. |
|------------------------------------|---|

**Talc:**

|                               |  |
|-------------------------------|--|
| Effects on foetal development | : Test Type: Embryo-foetal development<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative |
|-------------------------------|--|

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

May cause damage to organs (Thyroid, Adrenal gland, Testis) through prolonged or repeated exposure in contact with skin.

**Components:****Carbimazole:**

|                 |  |
|-----------------|--|
| Exposure routes | : Skin contact   |
| Target Organs   | : Thyroid, Adrenal gland, Testis                                     |
| Assessment      | : May cause damage to organs through prolonged or repeated exposure. |

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## Repeated dose toxicity

Components:

## Cellulose:

|                   |                      |
|-------------------|----------------------|
| Species           | : Rat                |
| NOAEL             | : $\geq 9,000$ mg/kg |
| Application Route | : Ingestion          |
| Exposure time     | : 90 Days            |

## Carbimazole:

|                   |                   |
|-------------------|-------------------|
| Species           | : Rat             |
| LOAEL             | : 0.5 mg/kg       |
| Application Route | : Intraperitoneal |
| Exposure time     | : 15 Days         |
| Target Organs     | : Thyroid         |

|                   |                   |
|-------------------|-------------------|
| Species           | : Rat             |
| LOAEL             | : 1.35 mg/kg      |
| Application Route | : Oral            |
| Exposure time     | : 8 Weeks         |
| Target Organs     | : Thyroid, Testis |

## Aspiration toxicity

Not classified based on available information.

## Experience with human exposure

Components:

## Carbimazole:

|           |   |
|-----------|---|
| Ingestion | : Symptoms: Rash, hearing loss, Headache, Nausea, hair loss |
|-----------|---|

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12. ECOLOGICAL INFORMATION

## Ecotoxicity

Components:

## Cellulose:

|                  |  |
|------------------|--|
| Toxicity to fish | : LC50 ( <i>Oryzias latipes</i> (Japanese medaka)): $> 100$ mg/l<br>Exposure time: 48 h<br>Remarks: Based on data from similar materials |
|------------------|--|

## Carbimazole:

|                  |  |
|------------------|--|
| Toxicity to fish | : LC50 ( <i>Pimephales promelas</i> (fathead minnow)): $> 120$ mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br>Remarks: Based on data from similar materials |
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|---|---|---|
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0.43 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202<br>Remarks: Based on data from similar materials<br><br>LC50 (Americamysis): 2.1 mg/l<br>Exposure time: 96 h<br>Remarks: Based on data from similar materials                  |
| Toxicity to algae/aquatic plants                    | : | EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l<br>Exposure time: 72 h<br>Remarks: Based on data from similar materials<br><br>NOEC (Pseudokirchneriella subcapitata (green algae)): 25 mg/l<br>Exposure time: 72 h<br>Remarks: Based on data from similar materials |
| M-Factor (Acute aquatic toxicity)                   | : | 1   |
| M-Factor (Chronic aquatic toxicity)                 | : | 1   |
| Toxicity to microorganisms                          | : | EC50: > 1,000 mg/l<br>Exposure time: 3 h<br>Test Type: Respiration inhibition<br>Remarks: Based on data from similar materials<br><br>NOEC: > 1,000 mg/l<br>Exposure time: 3 h<br>Test Type: Respiration inhibition<br>Remarks: Based on data from similar materials                  |

**Talc:**

|                  |   |   |
|------------------|---|---|
| Toxicity to fish | : | LC50 (Brachydanio rerio (zebrafish)): > 100,000 mg/l<br>Exposure time: 24 h |
|------------------|---|---|

**Persistence and degradability****Components:****Cellulose:**

|                  |   |                                |
|------------------|---|--------------------------------|
| Biodegradability | : | Result: Readily biodegradable. |
|------------------|---|--------------------------------|

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

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**Hazardous to the ozone layer**

Not applicable

**Other adverse effects**

No data available

**13. DISPOSAL CONSIDERATIONS****Disposal methods**

|                        |   |   |
|------------------------|---|---|
| Waste from residues    | : | Dispose of in accordance with local regulations.<br>Do not dispose of waste into sewer.   |
| Contaminated packaging | : | Empty containers should be taken to an approved waste handling site for recycling or disposal.<br>If not otherwise specified: Dispose of as unused product. |

**14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

|                           |   |   |
|---------------------------|---|---|
| UN number                 | : | UN 3077   |
| Proper shipping name      | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(Carbimazole) |
| Class                     | : | 9   |
| Packing group             | : | III   |
| Labels                    | : | 9   |
| Environmentally hazardous | : | yes   |

**IATA-DGR**

|  |   |   |
|--|---|---|
| UN/ID No.                                | : | UN 3077   |
| Proper shipping name                     | : | Environmentally hazardous substance, solid, n.o.s.<br>(Carbimazole) |
| Class                                    | : | 9   |
| Packing group                            | : | III   |
| Labels                                   | : | Miscellaneous   |
| Packing instruction (cargo aircraft)     | : | 956   |
| Packing instruction (passenger aircraft) | : | 956   |
| Environmentally hazardous                | : | yes   |

**IMDG-Code**

|                      |   |   |
|----------------------|---|---|
| UN number            | : | UN 3077   |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(Carbimazole) |
| Class                | : | 9   |
| Packing group        | : | III   |
| Labels               | : | 9   |
| EmS Code             | : | F-A, S-F  |
| Marine pollutant     | : | yes   |

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**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations**

Refer to section 15 for specific national regulation.

**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.

**ERG Code** : 171

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**15. REGULATORY INFORMATION****Related Regulations****Fire Service Law**

Not applicable to dangerous materials / designated flammables.

**Chemical Substance Control Law**

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

**Industrial Safety and Health Law****Harmful Substances Prohibited from Manufacture**

Not applicable

**Harmful Substances Required Permission for Manufacture**

Not applicable

**Substances Prevented From Impairment of Health**

Not applicable

**Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity**

Not applicable

**Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity**

Not applicable

**Substances Subject to be Notified Names**

Not applicable

**Substances Subject to be Indicated Names**

Not applicable

**Skin and Eye Damage Substances (ISHL MO Art. 594-2)**

Not applicable

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**Carcinogenic Substances (Article 577-2 of the Occupational Health and Safety Regulations)**

Not applicable

**Ordinance on Prevention of Hazards Due to Specified Chemical Substances**

Not applicable

**Ordinance on Prevention of Lead Poisoning**

Not applicable

**Ordinance on Prevention of Tetraalkyl Lead Poisoning**

Not applicable

**Ordinance on Prevention of Organic Solvent Poisoning**

Not applicable

**Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)**

Not applicable

**Poisonous and Deleterious Substances Control Law**

Not applicable

**Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof**

Not applicable

**High Pressure Gas Safety Act**

Not applicable

**Explosive Control Law**

Not applicable

**Vessel Safety Law**

Miscellaneous dangerous substances and articles (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

**Aviation Law**

Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

**Marine Pollution and Sea Disaster Prevention etc Law**

Bulk transportation : Not classified as noxious liquid substance

Pack transportation : Classified as marine pollutant

**Narcotics and Psychotropics Control Act**

Narcotic or Psychotropic Raw Material (Export / Import Permission)

Not applicable

Specific Narcotic or Psychotropic Raw Material (Export / Import permission)

Not applicable

**Waste Disposal and Public Cleansing Law**

Industrial waste

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



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

## 16. OTHER INFORMATION

## 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/>

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

Date format : yyyy/mm/dd

## Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
JP OEL JSOH : Japan. The Japan Society for Occupational Health. Recommendation of Occupational Exposure Limits

ACGIH / TWA : 8-hour, time-weighted average  
JP OEL JSOH / OEL-M : Occupational Exposure Limit-Mean

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of 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; SADT - Self-Accelerating Decomposition Tem-

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perature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

JP / EN