## Caspofungin Formulation

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| 6.1 | 26.09 .2023 | $24265-00024$ | Date of first issue: 21.10 .2014 |

## SECTION 1. IDENTIFICATION

Product name : Caspofungin Formulation

Manufacturer or supplier's details

| Company | $:$ MSD |
| :--- | :--- |
| Address | $:$Talcahuano 750, 6th floor, Ciudad Autonoma <br> Buenos Aires, Argentina C1013AAP |
| Telephone | $: 908-740-4000$ |
| Emergency telephone | $: 1-908-423-6000$ |
| E-mail address | $:$ EHSDATASTEWARD@msd.com |

Recommended use of the chemical and restrictions on use
Recommended use
: Pharmaceutical
Restrictions on use
: Not applicable

## SECTION 2. HAZARDS IDENTIFICATION

## GHS Classification

Serious eye damage/eye : Category 1 irritation

Effects on or via lactation
Short-term (acute) aquatic : Category 1
hazard
Long-term (chronic) aquatic : Category 1
hazard

GHS label elements
Hazard pictograms


| Signal Word | $:$ Danger |
| :--- | :--- |
|  |  |
| Hazard Statements | H318 Causes serious eye damage. |
|  | H362 May cause harm to breast-fed children. |
|  | H410 Very toxic to aquatic life with long lasting effects. |

Precautionary Statements
: Prevention:
P201 Obtain special instructions before use.

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P260 Do not breathe dust.
P263 Avoid contact during pregnancy and while nursing.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.

## Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P391 Collect spillage.

## Disposal:

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

## Other hazards which do not result in classification

May form explosive dust-air mixture during processing, handling or other means.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Components

| Chemical name | CAS-No. | Concentration (\% w/w) |
| :--- | :--- | :---: |
| Caspofungin | $179463-17-3$ | $>=30-<50$ |
| Sucrose | $57-50-1$ | $>=30-<50$ |
| Acetic acid | $64-19-7$ | $>=1-<3$ |

## SECTION 4. FIRST AID MEASURES

General advice

If inhaled
In case of skin contact
In case of eye contact

If swallowed
Most important symptoms and effects, both acute and delayed
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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Notes to physician : Treat symptomatically and supportively.

## SECTION 5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media | Water spray <br> Alcohol-resistant foam Carbon dioxide (CO2) 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 fire-fighters | In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Use personal protective equipment. tive equipment and emergency procedures

Environmental precautions

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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## 6.1

 26.09.2023 24265-00024| Technical measures | Static electricity may accumulate and ignite suspended dust causing an explosion. <br> Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. |
| :---: | :---: |
| Local/Total ventilation | Use only with adequate ventilation. |
| Advice on safe handling | Avoid contact during pregnancy and while nursing. |
|  | Do not breathe dust. |
|  | Do not swallow. |
|  | Do not get in eyes. |
|  | Avoid prolonged or repeated contact with skin. |
|  | 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. |
|  | 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. |
|  | Do not eat, drink or smoke when using this product. |
|  | Take care to prevent spills, waste and minimize release to the environment. |
| Conditions for safe storage | Keep in properly labeled containers. |
|  | 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 |

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Components | CAS-No. | Value type <br> (Form of <br> exposure) | Control parame- <br> ters $/$ Permissible <br> concentration | Basis |
| :--- | :--- | :--- | :--- | :--- |
| Caspofungin | $179463-17-3$ | TWA | $140 ~$ <br> $\mathrm{~g} / \mathrm{m3}$ <br> (OEB | Internal |
| Sucrose | $57-50-1$ | CMP | $10 \mathrm{mg} / \mathrm{m}^{3}$ | AR OEL |
|  | Further information: A4 - Not classifiable as a human carcinogen |  |  |  |
|  | $64-19-7$ | TWA | CMP | $10 \mathrm{mg} / \mathrm{m}^{3}$ |$|$| ACGIH |
| :--- |
| Acetic acid |

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## 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 | Combined particulates and organic vapor type |
| Hand protection |  |
| Material | Chemical-resistant gloves |
| Remarks | Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. |
| Eye protection | Wear the following personal protective equipment: Chemical resistant goggles must be worn. If splashes are likely to occur, wear: Face-shield |
| Skin and body protection | Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. <br> Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc). |
| Hygiene measures | If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. <br> When using do not eat, drink or smoke. <br> Wash contaminated clothing before re-use. |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | $:$ powder |
| :--- | :--- |
| Color | $:$ off-white |
| Odor | $:$ No data available |
| Odor Threshold | $:$ No data available |
| pH | $:$ No data available |
| Melting point/freezing point | $:$ Not applicable |
| Initial boiling point and boiling <br> range | $:$ No data available |
| Flash point | $:$ Not applicable |
| Evaporation rate | $:$ May form explosive dust-air mixture during processing, |
| Flammability (solid, gas) | handling or other means. |

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| Flammability (liquids) | Not applicable |
| :---: | :---: |
| Upper explosion limit / Upper flammability limit | No data available |
| Lower explosion limit / Lower flammability limit | No data available |
| Vapor pressure | Not applicable |
| Relative vapor density | Not applicable |
| Relative density | No data available |
| Density | No data available |
| Solubility (ies) |  |
| Water solubility | No data available |
| Partition coefficient: noctanol/water | Not applicable |
| Autoignition 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. |
| Molecular weight | No data available |
| Minimum ignition energy | 100-300 mJ |
|  | 30-100 mJ |
| Particle size | No data available |

## SECTION 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.
Can react with strong oxidizing agents.
Conditions to avoid : Heat, flames and sparks.
Avoid dust formation.
Incompatible materials
: Oxidizing agents
Hazardous decomposition : No hazardous decomposition products are known.

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products

## SECTION 11. TOXICOLOGICAL INFORMATION

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

## Acute toxicity

Not classified based on available information.

## Product:

Acute oral toxicity $\quad:$ Acute toxicity estimate: $>5.000 \mathrm{mg} / \mathrm{kg}$ Method: Calculation method

Components:

## Caspofungin:

Acute oral toxicity $\quad: \quad$ LD50 (Mouse): > $2.000 \mathrm{mg} / \mathrm{kg}$
Acute toxicity (other routes of administration)

LD50 (Mouse): 19 mg/kg
Application Route: Intravenous
LD50 (Rat): $38 \mathrm{mg} / \mathrm{kg}$
Application Route: Intravenous

## Sucrose:

Acute oral toxicity : LD50 (Rat): $29.700 \mathrm{mg} / \mathrm{kg}$

## Acetic acid:

| Acute oral toxicity | $:$LD50 (Rat): $>2.000-5.000 \mathrm{mg} / \mathrm{kg}$ <br>  <br> Remarks: Based on data from similar materials |  |
| :--- | :--- | :--- |
| Acute inhalation toxicity | $:$ | Assessment: Corrosive to the respiratory tract. |
| Acute dermal toxicity | $:$ | LD50 (Rabbit): $>5.000 \mathrm{mg} / \mathrm{kg}$ |
|  | Remarks: Based on data from similar materials |  |

## Skin corrosion/irritation

Not classified based on available information.

## Components:

Caspofungin:

```
Species : Rabbit
Result : Mild skin irritation
```


## Acetic acid:

| Species | $:$ Rabbit |
| :--- | :--- |
| Result | $:$ Corrosive after 3 minutes or less of exposure |

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## Serious eye damage/eye irritation

Causes serious eye damage.

## Components:

## Caspofungin:

| Species | $:$ Rabbit |  |
| :--- | :---: | :--- |
| Result | $:$ | Irreversible effects on the eye |
| Method | $:$ | Bovine cornea (BCOP) |

## Acetic acid:

| Species | $:$ Rabbit |
| :--- | :---: | :--- |
| Result | $:$ Irreversible effects on the eye |

## Respiratory or skin sensitization

## Skin sensitization

Not classified based on available information.

## Respiratory sensitization

Not classified based on available information.

## Germ cell mutagenicity

Not classified based on available information.

## Components:

## Caspofungin:

Genotoxicity in vitro

Genotoxicity in vivo
Test Type: Chromosomal aberration Test system: Chinese hamster ovary cells Result: negative

Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
Test Type: Alkaline elution assay
Test system: rat hepatocytes
Result: negative
Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster fibroblasts
Result: negative
Test Type: Chromosomal aberration
Species: Mouse
Cell type: Bone marrow
Result: negative

## Sucrose:

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

## Acetic acid:

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| :---: | :---: | :---: | :---: |
| Genotoxicity in vitro |  | Test Type: Bacterial reverse mutation assay (AMES) Result: negative |  |
|  |  |  |  |
|  |  | Test Type: Chromosome aberration test in vitro Result: negative |  |
|  |  |  |  |
|  |  | Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro) |  |
|  |  | Result: negative |  |
|  |  | Test Type: Result: eq | mammalian cell gene mutation test |
|  |  | Remarks: | on data from similar materials |
| Genotoxicity in vivo |  | Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) |  |
|  |  | Species: Rat |  |
|  |  | Application Route: inhalation (vapor) |  |
|  |  | Result: negative |  |
|  |  | Remarks: Based on data from similar materials |  |

## Carcinogenicity

Not classified based on available information.

## Components:

## Acetic acid:

| Species | $:$ Mouse |  |
| :--- | :--- | :--- |
| Application Route | $:$ | Skin contact |
| Exposure time | $:$ | 32 weeks |
| Result | $:$ | negative |

## Reproductive toxicity

May cause harm to breast-fed children.

## Components:

## Caspofungin:

Effects on fertility : Test Type: Fertility
Species: Rat, male and female
Application Route: Intravenous injection Fertility: NOAEL Parent: $5 \mathrm{mg} / \mathrm{kg}$ body weight
Result: No effects on fertility and early embryonic development were detected.

| Effects on fetal development $:$ | Test Type: Embryo-fetal development <br> Species: Rat |
| :--- | :--- |
|  | Application Route: Intravenous injection |
|  | General Toxicity Maternal: LOAEL: $5 \mathrm{mg} / \mathrm{kg}$ body weight |
|  | Embryo-fetal toxicity.: NOAEL F1: $2 \mathrm{mg} / \mathrm{kg}$ body weight |
|  | Symptoms: Abnormalities of the musculosketal system. |
|  | Result: Embryotoxic effects and adverse effects on the <br> offspring were detected. |

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Reproductive toxicity - Assessment

Test Type: Development
Species: Rabbit
Application Route: Intravenous injection
General Toxicity Maternal: NOAEL: $3 \mathrm{mg} / \mathrm{kg}$ body weight Developmental Toxicity: NOAEL F1: >= $6 \mathrm{mg} / \mathrm{kg}$ body weight
Result: Embryotoxic effects and adverse effects on the offspring were detected.
: Studies indicating a hazard to babies during the lactation period

## Acetic acid:

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Result: negative

## STOT-single exposure

Not classified based on available information.

## STOT-repeated exposure

Not classified based on available information.

## Repeated dose toxicity

Components:

## Caspofungin:

Species : Monkey
NOAEL : $2 \mathrm{mg} / \mathrm{kg}$
LOAEL : $5 \mathrm{mg} / \mathrm{kg}$
Application Route : Intravenous
Exposure time : 27 Weeks
Number of exposures : daily
Target Organs : Liver
Species : Rat
LOAEL
Application Route
Exposure time : 27 Weeks
Symptoms : Swelling of tissue
Species : Rat
NOAEL : $2 \mathrm{mg} / \mathrm{kg}$
LOAEL : $5 \mathrm{mg} / \mathrm{kg}$
Application Route : Intravenous
Exposure time : 14 Weeks
Number of exposures : daily
Symptoms : Swelling of tissue

## Acetic acid:

| Species | $:$ Rat |
| :--- | :---: | :--- |
| NOAEL | $: 290 \mathrm{mg} / \mathrm{kg}$ |
| Application Route | $:$ Ingestion |

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Exposure time : 8 Weeks

## Aspiration toxicity

Not classified based on available information.
Components:
Caspofungin:
No aspiration toxicity classification

## SECTION 12. ECOLOGICAL INFORMATION

## Ecotoxicity

## Components:

## Caspofungin:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2,4 mg/l Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 22,6 mg/l aquatic invertebrates

Exposure time: 48 h
Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,1
plants
mg/l
Exposure time: 72 h
NOEC (Pseudokirchneriella subcapitata (green algae)): 0,05 mg/l
Exposure time: 72 h
M-Factor (Acute aquatic tox- : 10
icity)
Toxicity to fish (Chronic tox- : NOEC (Pimephales promelas (fathead minnow)): 0,084 mg/l icity)

Exposure time: 32 d
Method: OECD Test Guideline 210
Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 0,67 mg/l aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d
Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)
Toxicity to microorganisms : EC50: > $127 \mathrm{mg} / \mathrm{l}$
Exposure time: 3 h
Test Type: Respiration inhibition Method: OECD Test Guideline 209

NOEC: $38 \mathrm{mg} / \mathrm{l}$
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209

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## Acetic acid:



## Persistence and degradability

## Components:

## Caspofungin:

Biodegradability

Stability in water
: Result: Not readily biodegradable. Biodegradation: 71,9 \%
Exposure time: 28 d Method: OECD Test Guideline 302B
: Degradation half life (DT50): 2,8 h

## Acetic acid:

Biodegradability
: Result: Readily biodegradable.
Biodegradation: 96 \%
Exposure time: 20 d

## Bioaccumulative potential

Components:
Caspofungin:
Partition coefficient: $\mathrm{n}-\quad$ : log Pow: -1,6
octanol/water

## Sucrose:

Partition coefficient: n - : Pow: < 1
octanol/water
Acetic acid:

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Partition coefficient: $n$ - : log Pow: -0,17
octanol/water
Mobility in soil
No data available
Other adverse effects
No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

## Disposal methods

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

## SECTION 14. TRANSPORT INFORMATION

## International Regulations

UNRTDG
UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Caspofungin)
Class
: 9
Packing group : III
Labels : 9
Environmentally hazardous : yes
IATA-DGR
UN/ID No.
Proper shipping name

- UN 3077
: Environmentally hazardous substance, solid, n.o.s. (Caspofungin)
Class
- 9

Packing group
Labels
Packing instruction (cargo
aircraft)
Packing instruction (passen- : 956
ger aircraft)
Environmentally hazardous : yes
IMDG-Code
UN number
: UN 3077
Proper shipping name

Class : 9
Packing group : III
Labels
EmS Code
Marine pollutant
: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Caspofungin)
: 9
F-A, S-F
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.

## 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.

## SECTION 15. REGULATORY INFORMATION

## Safety, health and environmental regulations/legislation specific for the substance or mixture <br> Argentina. Carcinogenic Substances and Agents : Not applicable <br> Registry. <br> Control of precursors and essential chemicals for the : Not applicable preparation of drugs.

The ingredients of this product are reported in the following inventories:
AICS
: not determined
DSL : not determined
IECSC : not determined

## SECTION 16. OTHER INFORMATION

```
Revision Date : 26.09.2023
Date format : dd.mm.yyyy
```


## Further information

Sources of key data used to compile the Material Safety Data Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

## Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
AR OEL : Argentina. Occupational Exposure Limits
ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
AR OEL / CMP : TLV (Threshold Limit Value)
AR OEL / CMP - CPT : STEL (Short Term Limit Value)
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;

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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; NZloC - 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 Temperature; 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.

AR / Z8


[^0]:    Engineering measures : Ensure adequate ventilation, especially in confined areas.
    Minimize workplace exposure concentrations.
    Apply measures to prevent dust explosions.
    Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

