

according to the OSHA Hazard Communication Standard

## Sitagliptin Formulation

| Version | Revision Date: | SDS Number: | Date of last issue: 09/26/2023  |
|---------|----------------|-------------|---------------------------------|
| 8.2     | 09/28/2024     | 17316-00025 | Date of first issue: 09/30/2014 |

#### **SECTION 1. IDENTIFICATION**

| Product name  | : | Sitagliptin Formulation  |  |  |  |  |
|---|---|--|--|--|--|--|
| Manufacturer or supplier's details                      |   |  |  |  |  |  |
| Company name of supplier<br>Address                     |   | Merck & Co., Inc<br>126 E. Lincoln Avenue<br>Rahway, New Jersey U.S.A. 07065 |  |  |  |  |
| Telephone<br>Emergency telephone<br>E-mail address      | : | 908-740-4000<br>1-908-423-6000<br>EHSDATASTEWARD@merck.com                   |  |  |  |  |
| Recommended use of the chemical and restrictions on use |   |  |  |  |  |  |
| Recommended use<br>Restrictions on use                  | : | Pharmaceutical<br>Not applicable   |  |  |  |  |

#### **SECTION 2. HAZARDS IDENTIFICATION**

| GHS classification in accord<br>1910.1200)<br>Combustible dust | danc | ce with the OSHA Hazard Communication Standard (29 CFR   |
|--|------|--|
| Eye irritation   | :    | Category 2A  |
| Skin sensitization   | :    | Category 1   |
| GHS label elements<br>Hazard pictograms                        | :    |  |
| Signal Word  | :    | Warning  |
| Hazard Statements  | :    | If small particles are generated during further processing, han-<br>dling or by other means, may form combustible dust concentra-<br>tions in air.<br>H317 May cause an allergic skin reaction.<br>H319 Causes serious eye irritation.                 |
| Precautionary Statements                                       | :    | <b>Prevention:</b><br>P261 Avoid breathing dust.<br>P264 Wash skin thoroughly after handling.<br>P272 Contaminated work clothing must not be allowed out of<br>the workplace.<br>P280 Wear protective gloves, eye protection and face protec-<br>tion. |
|  |      | <b>Response:</b><br>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  |

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|----------------|------------------------------|---|--|--|--|
|                |                              | for several min<br>to do. Continue<br>P333 + P313 If<br>tion.<br>P337 + P313 If                   | • P338 IF IN EYES: Rinse cautiously with water<br>utes. Remove contact lenses, if present and easy<br>e rinsing.<br>• skin irritation or rash occurs: Get medical atten-<br>• eye irritation persists: Get medical attention.<br>ntaminated clothing before reuse. |  |  |
|                |                              | <b>Disposal:</b><br>P501 Dispose of contents and container to an approved wast<br>disposal plant. |  |  |  |
| Other          | r hazards                    |   |  |  |  |

#### Other hazards

Contact with dust can cause mechanical irritation or drying of the skin.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

| Chemical name                   | CAS-No.     | Concentration (% w/w) |
|---------------------------------|-------------|-----------------------|
| Sitagliptin                     | 654671-77-9 | >= 30 - < 50          |
| Cellulose                       | 9004-34-6   | >= 20 - < 30          |
| Polyethylene glycol             | 25322-68-3  | >= 1 - < 5            |
| Magnesium stearate              | 557-04-0    | >= 1 - < 5            |
| Titanium dioxide                | 13463-67-7  | >= 0.1 - < 1          |
| Propyl 3,4,5-trihydroxybenzoate | 121-79-9    | >= 0.1 - < 1          |

Actual concentration is withheld as a trade secret

#### SECTION 4. FIRST AID MEASURES

| General advice   | : | In the case of accident or if you feel unwell, seek medical<br>advice immediately.<br>When symptoms persist or in all cases of doubt seek medical<br>advice.   |
|--|---|--|
| If inhaled   | : | If inhaled, remove to fresh air.<br>Get medical attention if symptoms occur.   |
| In case of skin contact                                | : | In case of contact, immediately flush skin with soap and plenty<br>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                                 | : | In case of contact, immediately flush eyes with plenty of water<br>for at least 15 minutes.<br>If easy to do, remove contact lens, if worn.<br>Get medical attention.  |
| If swallowed   | : | If swallowed, DO NOT induce vomiting.<br>Get medical attention if symptoms occur.<br>Rinse mouth thoroughly with water.  |
| Most important symptoms<br>and effects, both acute and | : | May cause an allergic skin reaction.<br>Causes serious eye irritation.   |



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| delayed<br>Protection of first-aiders<br>Notes to physician |                      | :                                | Contact with dust can cause mechanical irritation or drying<br>the skin.<br>First Aid responders should pay attention to self-protection,<br>and use the recommended personal protective equipment<br>when the potential for exposure exists (see section 8).<br>Treat symptomatically and supportively. |   |  |
| SEC   | CTION 5              | . FIRE-FIGHTING ME               | ASU  | IRES  |  |
|   | Suitable             | e extinguishing media            | :  | Water spray<br>Alcohol-resistant f<br>Carbon dioxide (C<br>Dry chemical |  |
|   | Unsuita<br>media     | able extinguishing               | :  | None known.   |  |
|   | Specific<br>fighting | c hazards during fire            | :  | concentrations, ar<br>potential dust exp                                | dust; fine dust dispersed in air in sufficient<br>nd in the presence of an ignition source is a<br>losion hazard.<br>bustion products may be a hazard to health. |
|   | Hazard<br>ucts       | ous combustion prod-             | :  | Carbon oxides<br>Metal oxides<br>Oxides of phosph                       | orus   |
|   | Specific<br>ods      | c extinguishing meth-            | :  | cumstances and t<br>Use water spray t                                   | measures that are appropriate to local cir-<br>he surrounding environment.<br>o cool unopened containers.<br>ged containers from fire area if it is safe to do   |
|   | Special<br>for fire- | protective equipment<br>fighters | :  | In the event of fire<br>Use personal prot                               | e, wear self-contained breathing apparatus.<br>ective equipment.   |

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec-<br>tive equipment and emer-<br>gency procedures | : | Use personal protective equipment.<br>Follow safe handling advice (see section 7) and personal<br>protective equipment recommendations (see section 8).  |
|---|---|--|
| Environmental precautions   | : | Avoid release to the environment.<br>Prevent further leakage or spillage if safe to do so.<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages<br>cannot be contained. |
| Methods and materials for containment and cleaning up                         | : | Sweep up or vacuum up spillage and collect in suitable<br>container for disposal.<br>Avoid dispersal of dust in the air (i.e., clearing dust surfaces<br>with compressed air).   |

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|                |                              | surfaces, as th<br>released into t<br>Local or nation<br>disposal of this<br>employed in th<br>determine whi<br>Sections 13 ar | should not be allowed to accumulate on<br>hese may form an explosive mixture if they are<br>he atmosphere in sufficient concentration.<br>hal regulations may apply to releases and<br>s material, as well as those materials and items<br>he cleanup of releases. You will need to<br>ch regulations are applicable.<br>hd 15 of this SDS provide information regarding<br>r national requirements. |
| SECTION        | 7. HANDLING AND              | STORAGE  |  |

| 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     | : | Use only with adequate ventilation.   |
| Advice on safe handling     | : | Do not get on skin or clothing.   |
|                             |   | Do not breathe dust.  |
|                             |   | Avoid breathing dust.   |
|                             |   | Do not swallow.   |
|                             |   | Do not get in eyes.   |
|                             |   | Wash skin thoroughly after handling.  |
|                             |   | Handle in accordance with good industrial hygiene and safety                                  |
|                             |   | practice, based on the results of the workplace exposure<br>assessment                        |
|                             |   | 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.                   |
| Conditions for safe storage | : | Keep in properly labeled containers.  |
| _                           |   | 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

| inert or nuisance dust | 50 Million particles per cubic foot<br>Value type (Form of exposure): TWA (total dust)<br>Basis: OSHA Z-3 |  |  |
|------------------------|---|--|--|
|                        | 15 mg/m³<br>Value type (Form of exposure): TWA (total dust)<br>Basis: OSHA Z-3                            |  |  |
|                        | 5 mg/m³<br>Value type (Form of exposure): TWA (respirable fraction)<br>Basis: OSHA Z-3                    |  |  |



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| /ersion<br>3.2  | Revision Date:<br>09/28/2024  | SDS Number:<br>17316-00025  |  | t issue: 09/26/2023<br>t issue: 09/30/2014             |           |  |
|-----------------|-------------------------------|---|--|--|-----------|--|
| Dust,<br>ticula | nuisance dust and par-<br>tes | <ul> <li>15 Million particles per cubic foot<br/>Value type (Form of exposure): TWA (respirable fraction)<br/>Basis: OSHA Z-3</li> <li>10 mg/m<sup>3</sup><br/>Value type (Form of exposure): PEL (Total dust)<br/>Basis: CAL PEL</li> <li>5 mg/m<sup>3</sup><br/>Value type (Form of exposure): PEL (respirable dust fraction)<br/>Basis: CAL PEL</li> </ul> |  |  |           |  |
| _               |                               | Dasis. CALTE  |  |  |           |  |
| Comp            | oonents                       | CAS-No.   | Value type<br>(Form of<br>exposure)                | Control parame-<br>ters / Permissible<br>concentration | Basis     |  |
| Sitag           | liptin                        | 654671-77-9   | TŴA  | 0.5 mg/m3 (OEB<br>2)                                   | Internal  |  |
| Cellu           | lose                          | 9004-34-6   | TWA  | 10 mg/m <sup>3</sup>                                   | ACGIH     |  |
|                 |                               |   | TWA (Res-<br>pirable)                              | 5 mg/m³  | NIOSH REL |  |
|                 |                               |   | TWA (total)  | 10 mg/m <sup>3</sup>                                   | NIOSH REL |  |
|                 |                               |   | TWA (total<br>dust)                                | 15 mg/m <sup>3</sup>                                   | OSHA Z-1  |  |
|                 |                               |   | TWA (respir-<br>able fraction)                     | 5 mg/m <sup>3</sup>                                    | OSHA Z-1  |  |
| Polye           | ethylene glycol               | 25322-68-3  | TWA (aero-<br>sol)                                 | 10 mg/m <sup>3</sup>                                   | US WEEL   |  |
| Magr            | nesium stearate               | 557-04-0  | TWA (Inhal-<br>able particu-<br>late matter)       | 10 mg/m <sup>3</sup>                                   | ACGIH     |  |
|                 |                               |   | TWA (Res-<br>pirable par-<br>ticulate mat-<br>ter) | 3 mg/m <sup>3</sup>                                    | ACGIH     |  |
| Titani          | ium dioxide                   | 13463-67-7  | TWA (Res-<br>pirable par-<br>ticulate mat-<br>ter) | 2.5 mg/m <sup>3</sup><br>(Titanium dioxide)            | ACGIH     |  |
|                 |                               |   | TWA (total dust)                                   | 15 mg/m³   | OSHA Z-1  |  |

This substance(s) is not bioavailable and therefore does not contribute to a dust inhalation hazard.

Titanium dioxide

| Engineering measures | : | Use feasible engineering controls to minimize exposure to compound.<br>All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. |
|----------------------|---|--|
|----------------------|---|--|

Personal protective equipment





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|--|------------------------------|--|---|--|--|--|--|
| Respiratory protection                       |                              | maintain va<br>concentratic<br>unknown, a<br>Follow OSH<br>use NIOSH/<br>by air purify<br>hazardous c<br>supplied res<br>release, exp                                  | d local exhaust ventilation is recommended to<br>por exposures below recommended limits. Where<br>ons are above recommended limits or are<br>opropriate respiratory protection should be worn.<br>A respirator regulations (29 CFR 1910.134) and<br>(MSHA approved respirators. Protection provided<br>ing respirators against exposure to any<br>chemical is limited. Use a positive pressure air<br>spirator if there is any potential for uncontrolled<br>posure levels are unknown, or any other<br>where air purifying respirators may not provide<br>rotection. |  |  |  |  |
|  | protection<br>aterial        | : Chemical-resistant gloves  |   |  |  |  |  |
| Eye p  | protection                   | If the work e<br>mists or aer<br>Wear a face   | glasses with side shields or goggles.<br>hvironment or activity involves dusty conditions,<br>sols, wear the appropriate goggles.<br>shield or other full face protection if there is a<br>direct contact to the face with dusts, mists, or   |  |  |  |  |
| Skin and body protection<br>Hygiene measures |                              | : If exposure<br>eye flushing<br>working plac<br>When using<br>Contaminate<br>workplace.<br>Wash conta<br>The effective<br>engineering<br>appropriate<br>industrial hy | m or laboratory coat.<br>to chemical is likely during typical use, provide<br>systems and safety showers close to the<br>ce.<br>do not eat, drink or smoke.<br>ed work clothing should not be allowed out of the<br>minated clothing before re-use.<br>e operation of a facility should include review of<br>controls, proper personal protective equipment,<br>degowning and decontamination procedures,<br>rgiene monitoring, medical surveillance and the<br>nistrative controls.  |  |  |  |  |

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance                              | : | powder            |
|---|---|-------------------|
| Color                                   | : | No data available |
| Odor                                    | : | No data available |
| Odor Threshold                          | : | No data available |
| рН                                      | : | No data available |
| Melting point/freezing point            | : | No data available |
| Initial boiling point and boiling range | : | No data available |
| Flash point                             | : | Not applicable    |





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|----------------|--|---|----------------------------------|---|--|--|--|
| Evap           | poration rate                                | : | Not applicable                   |   |  |  |  |
| Flam           | Flammability (solid, gas)                    |   | May form explos handling or othe | ive dust-air mixture during processing, r means.                  |  |  |  |
| Flam           | nmability (liquids)                          | : | No data available                | e   |  |  |  |
|                | er explosion limit / Upper<br>mability limit | : | No data available                |   |  |  |  |
|                | er explosion limit / Lower<br>mability limit | : | : No data available              |   |  |  |  |
| Vapo           | or pressure                                  | : | : Not applicable                 |   |  |  |  |
| Rela           | tive vapor density                           | : | : Not applicable                 |   |  |  |  |
| Rela           | tive density                                 | : | : No data available              |   |  |  |  |
| Dens           | sity   | : | No data available                | e   |  |  |  |
|                | bility(ies)<br>Vater solubility              | : | No data available                | e   |  |  |  |
|                | tion coefficient: n-                         | : | Not applicable                   |   |  |  |  |
|                | nol/water<br>ignition temperature            | : | No data available                | e   |  |  |  |
| Deco           | omposition temperature                       | : | No data available                | e   |  |  |  |
| Visc<br>V      | osity<br>/iscosity, kinematic                | : | Not applicable                   |   |  |  |  |
| Expl           | osive properties                             | : | Not explosive                    |   |  |  |  |
| Oxid           | lizing properties                            | : | The substance c                  | or mixture is not classified as oxidizing.                        |  |  |  |
| Mole           | ecular weight                                | : | No data available                | e   |  |  |  |
|                | cle characteristics<br>cle size              | : | No data availabl                 | e   |  |  |  |

#### SECTION 10. STABILITY AND REACTIVITY

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



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|---------------------------|--|--|---|--|--|--|--|
|                           | npatible materials<br>rdous decomposition<br>cts | <ul> <li>Oxidizing agents</li> <li>No hazardous decomposition products are known.</li> </ul> |   |  |  |  |  |
| SECTION                   | 11. TOXICOLOGICAL                                | INFORMATION  |   |  |  |  |  |
| Inhala<br>Skin o<br>Inges | contact  | s of exposure  |   |  |  |  |  |
|                           | e toxicity<br>assified based on avai             | able information   |   |  |  |  |  |
| Com                       | oonents:   |  |   |  |  |  |  |
| -                         | liptin:  |  |   |  |  |  |  |
| Acute                     | oral toxicity                                    | : LD50 (Rat  | ): > 3,000 mg/kg  |  |  |  |  |
|                           |  | LD50 (Mor  | use): 3,000 mg/kg   |  |  |  |  |
| Cellu                     | lose:  |  |   |  |  |  |  |
| Acute                     | oral toxicity                                    | : LD50 (Rat  | ): > 5,000 mg/kg  |  |  |  |  |
| Acute                     | inhalation toxicity                              | Exposure   | ): > 5.8 mg/l<br>time: 4 h<br>sphere: dust/mist   |  |  |  |  |
| Acute                     | dermal toxicity                                  | : LD50 (Rat  | bbit): > 2,000 mg/kg  |  |  |  |  |
| Polye                     | thylene glycol:                                  |  |   |  |  |  |  |
| Acute                     | oral toxicity                                    | Method: O  | ): > 2,000 mg/kg<br>ECD Test Guideline 423<br>Based on data from similar materials  |  |  |  |  |
| Acute                     | dermal toxicity                                  |  | ): > 2,000 mg/kg<br>Based on data from similar materials  |  |  |  |  |
| Magn                      | esium stearate:                                  |  |   |  |  |  |  |
| Acute                     | oral toxicity                                    | Method: O<br>Assessme<br>icity   | ): > 2,000 mg/kg<br>ECD Test Guideline 423<br>nt: The substance or mixture has no acute oral tox-<br>Based on data from similar materials |  |  |  |  |
| Acute                     | dermal toxicity                                  |  | bbit): > 2,000 mg/kg<br>Based on data from similar materials  |  |  |  |  |
|                           | ium dioxide:                                     | : LD50 (Rat  | ): > 5,000 mg/kg  |  |  |  |  |



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| Acute                 | inhalation toxicity          | :               | LC50 (Rat): > 6<br>Exposure time:<br>Test atmospher<br>Assessment: Th<br>tion toxicity | 4 h  |
| Prop                  | yl 3,4,5-trihydroxybe        | nzoat           | e:   |  |
| Acute                 | oral toxicity                | :               | LD50 (Mouse, f   | emale): > 1,000 - 2,000 mg/kg  |
| Acute dermal toxicity |                              | :               |  | ,000 mg/kg<br>Test Guideline 402<br>ne substance or mixture has no acute derma |
|                       | corrosion/irritation         | ailable         | information.   |  |
|                       | ponents:                     |                 |  |  |
|                       | liptin:                      |                 |  |  |
| Speci                 | -                            |                 | Rabbit   |  |
| Metho                 |                              | ÷               | Draize Test  |  |
| Resu                  | lt                           | :               | No skin irritation   | 1  |
| Polve                 | ethylene glycol:             |                 |  |  |
| Speci                 |                              |                 | Rabbit   |  |
| Metho                 |                              | ÷               | OECD Test Gu   | deline 404   |
| Resu                  |                              | ÷               | No skin irritation   |  |
| Rema                  | arks                         | :               | Based on data  | rom similar materials  |
| Magn                  | esium stearate:              |                 |  |  |
| Speci                 |                              | :               | Rabbit   |  |
| Resu                  |                              | :               | No skin irritatio  | 1  |
| Rema                  | arks                         | :               | Based on data  | irom similar materials   |
| Titan                 | ium dioxide:                 |                 |  |  |
| Speci                 | es                           | :               | Rabbit   |  |
|                       |                              | :               | No skin irritation   | 1  |
| Resu                  |                              |                 | e:   |  |
|                       | yl 3,4,5-trihydroxybe        | nzoat           | •  |  |
| Prop                  |                              | nzoat           |  | uman epidermis (RhE)   |
|                       | es                           | nzoat<br>:<br>: |  | uman epidermis (RhE)<br>deline 439   |

Causes serious eye irritation.



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Species

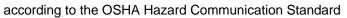
Result Remarks

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|----------------|------------------------------------|---------------------------------------|---|
| Con            | nponents:                          |                                       |   |
| Sita           | gliptin:                           |                                       |   |
|                | cies                               | : Rabbit                              |   |
| Res            |                                    | : Irritating to eye                   | PS.   |
| Met            | hod                                | : Draize Test                         |   |
| Poly           | vethylene glycol:                  |                                       |   |
| Spe            |                                    | : Rabbit                              |   |
| Res<br>Metl    |                                    | : No eye irritatio<br>: OECD Test Gu  |   |
|                | nou<br>narks                       |                                       | from similar materials  |
|                |                                    |                                       |   |
| -              | inesium stearate:                  |                                       |   |
| Spe<br>Res     |                                    | : Rabbit                              | ~   |
|                | narks                              | : No eye irritatio<br>: Based on data | from similar materials  |
|                |                                    |                                       |   |
| Tita           | nium dioxide:                      |                                       |   |
| Spe            |                                    | : Rabbit                              |   |
| Res            | uit                                | : No eye irritatio                    | n   |
| Pro            | pyl 3,4,5-trihydroxybe             | nzoate:                               |   |
| Spe            |                                    | : Rabbit                              |   |
| Res            | ult                                |                                       | ects on the eye   |
| Met            | hod                                | : OECD Test Gu                        | uideline 405  |
| Res            | piratory or skin sensi             | tization                              |   |
| Skir           | n sensitization                    |                                       |   |
| May            | r cause an allergic skin           | reaction.                             |   |
| Res            | piratory sensitization             |                                       |   |
| Not            | classified based on ava            | ailable information.                  |   |
| <u>Con</u>     | nponents:                          |                                       |   |
| Sita           | gliptin:                           |                                       |   |
|                | t Type                             |                                       | ode assay (LLNA)  |
| Spe<br>Metl    |                                    | : Mouse<br>: OECD Test Gu             | iideline 429  |
| Res            |                                    | : Not a skin sens                     |   |
| Dah            | athylana alyzali                   |                                       |   |
| -              | <b>/ethylene glycol:</b><br>t Type | : Maximization 1                      | -ost  |
|                | tes of exposure                    | : Skin contact                        | 0.51  |
|                | cies                               | : Guinea nig                          |   |



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|-------------|---------------------------------------|------------------------------|------|--|---|--|--|
|             | Test Ty                               | of exposure<br>s             | :    | Maximization Tes<br>Skin contact<br>Guinea pig<br>OECD Test Guide<br>negative<br>Based on data fro |   |  |  |
|             |                                       | ım dioxide:                  |      |  |   |  |  |
|             | Test Ty<br>Routes<br>Specie<br>Result | of exposure                  | :    | Local lymph node<br>Skin contact<br>Mouse<br>negative  | assay (LLINA)   |  |  |
|             | Propyl                                | 3,4,5-trihydroxyben          | zoat | e:   |   |  |  |
|             | Test Ty<br>Routes<br>Specie<br>Result | of exposure                  | :    | Local lymph node<br>Skin contact<br>Mouse<br>positive  | assay (LLNA)  |  |  |
|             | Assessment                            |                              | :    | Probability or evidence of skin sensitization in humans  |   |  |  |
|             | Not cla<br><u>Compo</u><br>Sitagli    |                              | able | information.   |   |  |  |
|             | Genoto                                | oxicity in vitro             | :    | Test Type: Ames<br>Result: negative  | test  |  |  |
|             |                                       |                              |      |  | nosome aberration test in vitro<br>nese hamster ovary cells       |  |  |
|             |                                       |                              |      | Test Type: DNA c<br>thesis in mammal<br>Test system: rat h<br>Result: negative                     |   |  |  |
|             | Genoto                                | oxicity in vivo              | :    | Test Type: Micror<br>Species: Mouse<br>Application Route<br>Result: negative                       |   |  |  |
|             | Cellulo                               | ose:                         |      |  |   |  |  |
|             | Genoto                                | oxicity in vitro             | :    | Test Type: Bacter<br>Result: negative  | ial reverse mutation assay (AMES)                                 |  |  |
|             |                                       |                              |      | Test Type: In vitro<br>Result: negative  | o mammalian cell gene mutation test                               |  |  |
|             |                                       |                              |      |  |   |  |  |





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|----------------|---|------|---|--|
| Gei            | Genotoxicity in vivo :                          |      | Test Type: Mamm<br>cytogenetic assay<br>Species: Mouse<br>Application Route<br>Result: negative |  |
|                | yethylene glycol:<br>notoxicity in vitro        | :    | Result: negative  | ial reverse mutation assay (AMES)<br>on data from similar materials                    |
| Ma             | gnesium stearate:                               |      |   |  |
|                | notoxicity in vitro                             | :    | Result: negative  | o mammalian cell gene mutation test<br>on data from similar materials                  |
|                |   |      | Method: OECD Te<br>Result: negative   | nosome aberration test in vitro<br>est Guideline 473<br>on data from similar materials |
|                |   |      | Result: negative  | ial reverse mutation assay (AMES)<br>on data from similar materials                    |
| Titz           | anium dioxide:                                  |      |   |  |
|                | notoxicity in vitro                             | :    | Test Type: Bacter<br>Result: negative   | ial reverse mutation assay (AMES)  |
| Gei            | notoxicity in vivo                              | :    | Test Type: In vivo<br>Species: Mouse<br>Result: negative  | micronucleus test  |
| Dro            | nul 2 4 5 tribudrovubon-                        |      | <b>.</b> .  |  |
|                | pyl 3,4,5-trihydroxybenz<br>notoxicity in vitro | .0at |   | ial reverse mutation assay (AMES)  |
|                |   |      | Test Type: In vitro<br>Result: positive   | mammalian cell gene mutation test  |
|                |   |      | Test Type: Chrom<br>Result: positive  | osome aberration test in vitro   |
|                |   |      | Test Type: DNA d<br>thesis in mammal<br>Result: negative  | lamage and repair, unscheduled DNA syn-<br>ian cells (in vitro)                        |
|                |   |      | Test Type: In vitro<br>malian cells<br>Result: positive   | sister chromatid exchange assay in mam-  |



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|-------------------------|---|--|---|
| Genot                   | oxicity in vivo                             | cytogenetic<br>Species: Mc   | use<br>Route: Intraperitoneal injection   |
|                         | n <b>ogenicity</b><br>assified based on ava | ilable information.  |   |
| Comp                    | oonents:                                    |  |   |
| <b>Sitagl</b><br>Specie | es  | : Mouse  |   |
|                         | ation Route<br>sure time<br>t               | : Oral<br>: 2 Years<br>: negative  |   |
| Expos<br>Result         | ation Route<br>sure time<br>t<br>t Organs   | : Rat<br>: oral (drinking<br>: 2 Years<br>: positive<br>: Liver  |   |
|                         | nogenicity - Assess-                        | -  | oxicity observed in testing vidence does not support classification as a car-   |
| Cellul                  | ose:  |  |   |
| Specie<br>Applic        | es<br>ation Route<br>sure time              | : Rat<br>: Ingestion<br>: 72 weeks<br>: negative   |   |
| Titani                  | um dioxide:                                 |  |   |
|                         | ation Route<br>sure time<br>od<br>t         | <ul> <li>2 Years</li> <li>OECD Test</li> <li>positive</li> <li>The mechar<br/>mans.</li> <li>This substar</li> </ul> | ust/mist/fume)<br>Guideline 453<br>nism or mode of action may not be relevant in hu<br>nce(s) is not bioavailable and therefore does not<br>a dust inhalation hazard. |
| Carcir<br>ment          | nogenicity - Assess-                        | : Limited evid animals.  | ence of carcinogenicity in inhalation studies with  |
| Propy                   | vl 3,4,5-trihydroxybe                       | nzoate:  |   |
| Specie                  |   | : Rat  |   |



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|-------------|--|--------------------|---------------------------------|---|--|---|---|--|--|--|--|
|             | Exposu<br>Result   | ire time           |                                 | : | 103 weeks<br>negative  |   |   |  |  |  |  |
|             | IARC   |                    | Group 2B: Pos<br>Titanium dioxi |   | ly carcinogenic to I   | numans  | 13463-67-7                                  |  |  |  |  |
|             | OSHA   |                    |                                 |   | this product preser<br>regulated carcinog  |   | r than or equal to 0.1% is                  |  |  |  |  |
|             | NTP  |                    |                                 |   | of this product present at levels greater than or equal to 0.1% is known or anticipated carcinogen by NTP.             |   |   |  |  |  |  |
|             | <b>Reproductive toxicity</b><br>Not classified based on available information. |                    |                                 |   |  |   |   |  |  |  |  |
|             | Compo  | onents:            |                                 |   |  |   |   |  |  |  |  |
|             | Sitaglij   | otin:              |                                 |   |  |   |   |  |  |  |  |
|             | Effects on fertility   |                    |                                 | : | Test Type: Fertility<br>Species: Rat<br>Application Route<br>Fertility: NOAEL F<br>Result: Animal test                 | : Oral<br>Parent: 1,000 mg/                     |   |  |  |  |  |
|             | Effects  | on fetal           | development                     | : | Test Type: Embry<br>Species: Rat<br>Application Route<br>Teratogenicity: LC<br>Result: Embryotos<br>offspring were det | : Oral<br>)AEL: 250 mg/kg<br>kic effects and ad | body weight<br>verse effects on the         |  |  |  |  |
|             |  |                    |                                 |   | Test Type: Embry<br>Species: Rabbit<br>Teratogenicity: NO<br>Result: No teratog  | DAEL: 125 mg/kg                                 |   |  |  |  |  |
|             | Cellulo  | se:                |                                 |   |  |   |   |  |  |  |  |
|             |  | on fertil          | ity                             | : | Test Type: One-ge<br>Species: Rat<br>Application Route<br>Result: negative   |   | iction toxicity study                       |  |  |  |  |
|             | Effects  | on fetal           | development                     | : | Test Type: Fertility<br>Species: Rat<br>Application Route<br>Result: negative  |   | development                                 |  |  |  |  |
|             | Magne  | sium st            | earate:                         |   |  |   |   |  |  |  |  |
|             | -  | on fertil          |                                 | : | Test Type: Combi<br>reproduction/deve<br>Species: Rat<br>Application Route   | lopmental toxicity                              | e toxicity study with the<br>screening test |  |  |  |  |



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|-----------------------------------|--|-------------------------------------|--|---|--|
|                                   |  | Res                                 | ult: negative  | est Guideline 422<br>on data from similar materials               |  |
| Effects                           | Effects on fetal development   |                                     | <ul> <li>Test Type: Embryo-fetal development<br/>Species: Rat<br/>Application Route: Ingestion<br/>Result: negative<br/>Remarks: Based on data from similar materials</li> </ul> |   |  |
| Propy                             | vl 3,4,5-trihydroxybenz  | oate:                               |  |   |  |
|                                   | s on fertility   | : Test<br>Spe<br>Appl               | Type: Two-go<br>cies: Rat<br>ication Route<br>ult: negative  | eneration reproduction toxicity study<br>: Ingestion              |  |
| Effects                           | s on fetal development   | Spe<br>Appl                         | Type: Embry<br>cies: Rat<br>ication Route<br>ult: negative   | o-fetal development<br>: Ingestion                                |  |
| Not cla<br><b>STOT</b><br>Not cla | -single exposure<br>assified based on availa<br>-repeated exposure<br>assified based on availa<br>ated dose toxicity |                                     |  |   |  |
| <u>Comp</u>                       | onents:  |                                     |  |   |  |
| Sitagl                            | iptin:   |                                     |  |   |  |
| Specie<br>NOAE                    |  | : Mou                               | se<br>mg/kg  |   |  |
| LOAE                              |  |                                     | 0 mg/kg  |   |  |
|                                   | ation Route  | : Oral                              |  |   |  |
|                                   | sure time<br>t Organs  | : > 2 y<br>: Kidn                   |  |   |  |
| Expos                             | E  | : 1,00<br>: Oral<br>: 14 V          | mg/kg<br>0 mg/kg<br>/eeks<br>r, Kidney, Hea  | art, Teeth  |  |
| Expos                             | L<br>L<br>ation Route<br>sure time<br>t Organs   | : 50 m<br>: Oral<br>: 53 V<br>: Cen | ng/kg<br>ng/kg<br>veeks<br>tral nervous s<br>of balance  | ystem   |  |



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|----------------------------------|--|--|
| Rema                             | arks   | : The mechanism or mode of action may not be relevant in humans.   |
| Expo                             | EL<br>EL<br>cation Route<br>sure time<br>of Organs<br>toms | <ul> <li>Dog</li> <li>2 mg/kg</li> <li>10 mg/kg</li> <li>Oral</li> <li>27 Weeks</li> <li>Skeletal muscle, Central nervous system</li> <li>Loss of balance</li> <li>The mechanism or mode of action may not be relevant in humans.</li> </ul> |
|                                  | EL<br>cation Route<br>sure time                            | <ul> <li>Monkey</li> <li>100 mg/kg</li> <li>Oral</li> <li>14 Weeks</li> <li>No significant adverse effects were reported</li> </ul>  |
|                                  | es   | : Rat<br>: >= 9,000 mg/kg<br>: Ingestion<br>: 90 Days  |
| Speci<br>NOAE<br>Applio          | EL<br>cation Route<br>sure time                            | <ul> <li>Rat</li> <li>&gt; 100 mg/kg</li> <li>Ingestion</li> <li>90 Days</li> <li>Based on data from similar materials</li> </ul>  |
| Speci<br>NOAE<br>Applic<br>Expos | EL<br>cation Route<br>sure time                            | : Rat<br>: 24,000 mg/kg<br>: Ingestion<br>: 28 Days  |
|                                  |  | : Rat<br>: 10 mg/m <sup>3</sup><br>: inhalation (dust/mist/fume)<br>: 2 y  |
| Speci<br>NOAE<br>Applic          |  | zoate:<br>: Rat<br>: 135 mg/kg<br>: Ingestion<br>: 13 Weeks  |



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|-------------------|---|-----|--|---|
| Aspira            | ation toxicity  |     |  |   |
| Not cla           | assified based on availa                                    | ble | information.   |   |
| Exper             | ience with human exp  | osu | re   |   |
| Comp              | onents:   |     |  |   |
| Sitagl            | iptin:  |     |  |   |
| Inhala            | tion  | :   | Symptoms: upper<br>Headache  | respiratory tract infection, pharyngitis,                                   |
| Ingest            | ion   | :   | Symptoms: upper  | respiratory tract infection, nasopharyngitis<br>a, Abdominal pain, Diarrhea |
|                   | 12. ECOLOGICAL INFO   | DRN | IATION   |   |
| Ecoto             | xicity  |     |  |   |
|                   | onents:   |     |  |   |
| Sitagl            |   |     |  |   |
| -                 | ty to fish  | :   | LC50 (Pimephale<br>Exposure time: 96<br>Method: OECD Te                      |   |
|                   | ty to daphnia and other<br>c invertebrates                  | :   | EC50 (Daphnia m<br>Exposure time: 48<br>Method: OECD To                      |   |
| Toxicit<br>plants | ty to algae/aquatic   | :   | EC50 (Pseudokiro<br>mg/l<br>Exposure time: 96<br>Method: OECD To             |   |
|                   |   |     | NOEC (Pseudokin<br>mg/l<br>Exposure time: 96<br>Method: OECD To              |   |
| Toxicit<br>icity) | ty to fish (Chronic tox-                                    | :   | NOEC (Pimephale<br>Exposure time: 33<br>Method: OECD Te                      |   |
|                   | ty to daphnia and other<br>c invertebrates (Chron-<br>city) | :   | NOEC (Daphnia r<br>Exposure time: 21<br>Method: OECD Te                      |   |
| Toxici            | ty to microorganisms  | :   | EC50: > 150 mg/l<br>Exposure time: 3<br>Test Type: Respir<br>Method: OECD Te | ation inhibition  |
|                   |   |     | NOEC: 150 mg/l<br>Exposure time: 3<br>Test Type: Respir                      |   |





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|-----------------|---|---|---|--|
|                 |   |   |   |  |
|                 | <b>llose:</b><br>ity to fish                  | : | Exposure time: 4  | tipes (Japanese medaka)): > 100 mg/l<br>8 h<br>on data from similar materials  |
|                 | ethylene glycol:<br>ity to fish               | : |   | eticulata (guppy)): > 100 mg/l   |
|                 |   |   |   | 6 n<br>Test Guideline 203<br>on data from similar materials  |
| Magr            | nesium stearate:                              |   |   |  |
| Toxic           | ity to fish                                   | : | Exposure time: 4<br>Method: DIN 384   |  |
|                 | ity to daphnia and other<br>tic invertebrates | : | Exposure time: 4<br>Test substance:<br>Method: Directive                        | Water Accommodated Fraction<br>e 67/548/EEC, Annex V, C.2.<br>on data from similar materials   |
| Toxic<br>plants | ity to algae/aquatic<br>s                     | : | mg/l<br>Exposure time: 7<br>Test substance:<br>Method: OECD 1<br>Remarks: Based | chneriella subcapitata (green algae)): > 1<br>2 h<br>Water Accommodated Fraction<br>Fest Guideline 201<br>on data from similar materials<br>limit of solubility. |
|                 |   |   | mg/l<br>Exposure time: 7<br>Test substance:<br>Method: OECD 1                   | kirchneriella subcapitata (green algae)): > 1<br>2 h<br>Water Accommodated Fraction<br>Fest Guideline 201<br>on data from similar materials                      |
| Toxic           | ity to microorganisms                         | : | Exposure time: 1<br>Test substance:   | onas putida): > 100 mg/l<br>6 h<br>Water Accommodated Fraction<br>on data from similar materials   |
| Titan           | ium dioxide:                                  |   |   |  |
| Toxic           | ity to fish                                   | : | Exposure time: 9  | chus mykiss (rainbow trout)): > 100 mg/l<br>6 h<br><sup>-</sup> est Guideline 203  |
| Toxic           | ity to daphnia and other                      | : | EC50 (Daphnia r   | nagna (Water flea)): > 100 mg/l  |



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|----------------|---|-----|--|---|--|
| aqua           | atic invertebrates                              |     | Exposure time: 48  | 3 h   |  |
|                | Toxicity to algae/aquatic plants                |     | EC50 (Skeletonema costatum (marine diatom)): > 10,000 n<br>Exposure time: 72 h   |   |  |
| Τοχία          | city to microorganisms                          | :   | EC50: > 1,000 mg<br>Exposure time: 3<br>Method: OECD Te                          | h   |  |
| Prop           | oyl 3,4,5-trihydroxybenz                        | oat | e:   |   |  |
|                | city to daphnia and other<br>atic invertebrates | :   | Exposure time: 48  | leutralized product   |  |
| Toxic<br>plant | city to algae/aquatic<br>ts                     | :   | mg/l<br>Exposure time: 72  | leutralized product   |  |
|                |   |     | mg/l<br>Exposure time: 72  | leutralized product   |  |
| Toxid          | city to microorganisms                          | :   | EC50: 636 mg/l<br>Exposure time: 3<br>Method: OECD Te                            |   |  |
| Pers           | istence and degradabil                          | ity |  |   |  |
| Com            | ponents:  |     |  |   |  |
|                | <b>gliptin:</b><br>egradability                 | :   | Result: not rapidly<br>Biodegradation: 3<br>Exposure time: 28<br>Method: OECD To | 39.7 %<br>3 d   |  |
| Stab           | ility in water                                  | :   | Hydrolysis: 50 %(<br>Method: OECD Te   |   |  |
| Cellu          | ulose:  |     |  |   |  |
| Biod           | egradability                                    | :   | Result: Readily bi   | odegradable.  |  |
| -              | e <b>thylene glycol:</b><br>egradability        | :   | Result: rapidly de<br>Remarks: Based o   | gradable<br>on data from similar materials                        |  |



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# Sitagliptin Formulation

**Disposal methods** 

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|------------|---|-----|-------------------------------------|---|
| Magn       | esium stearate:                                     |     |                                     |   |
| -          | egradability  | :   | Result: Not biode<br>Remarks: Based | egradable<br>I on data from similar materials                     |
| Prop       | yl 3,4,5-trihydroxybenz                             | oat | e:                                  |   |
| Biode      | gradability   | :   | Biodegradation:<br>Exposure time: 2 |   |
| Bioad      | ccumulative potential                               |     |                                     |   |
| Com        | ponents:  |     |                                     |   |
| Partit     | liptin:<br>ion coefficient: n-<br>ol/water          | :   | log Pow: -0.03                      |   |
| Partit     | ethylene glycol:<br>ion coefficient: n-<br>ol/water | :   | log Pow: < 3                        |   |
| Partit     | nesium stearate:<br>ion coefficient: n-<br>ol/water | :   | log Pow: > 4                        |   |
| Prop       | yl 3,4,5-trihydroxybenz                             | oat | e:                                  |   |
|            | ion coefficient: n-<br>ol/water                     | :   | log Pow: 1.8<br>Remarks: Calcul     | lation  |
| Mobi       | lity in soil  |     |                                     |   |
| Com        | ponents:  |     |                                     |   |
| Sitag      | liptin:   |     |                                     |   |
|            | bution among environ-<br>al compartments            | :   | log Koc: 4.37                       |   |
|            | r adverse effects<br>ata available                  |     |                                     |   |

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





### Sitagliptin Formulation

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#### **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulations**

**UNRTDG** Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

#### **Domestic regulation**

**49 CFR** Not regulated as a dangerous good

#### Special precautions for user

Not applicable

#### SECTION 15. REGULATORY INFORMATION

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

| SARA 311/312 Hazards | : | Combustible dust<br>Respiratory or skin sensitization<br>Serious eye damage or eye irritation   |
|----------------------|---|---|
| SARA 313             | : | This material does not contain any chemical components with<br>known CAS numbers that exceed the threshold (De Minimis)<br>reporting levels established by SARA Title III, Section 313. |

#### **US State Regulations**

| Pennsylvania Right To Know     |             |
|--------------------------------|-------------|
| Sitagliptin                    | 654671-77-9 |
| Cellulose                      | 9004-34-6   |
| Calcium hydrogenorthophosphate | 7757-93-9   |

#### California Prop. 65

WARNING: This product can expose you to chemicals including Titanium dioxide, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

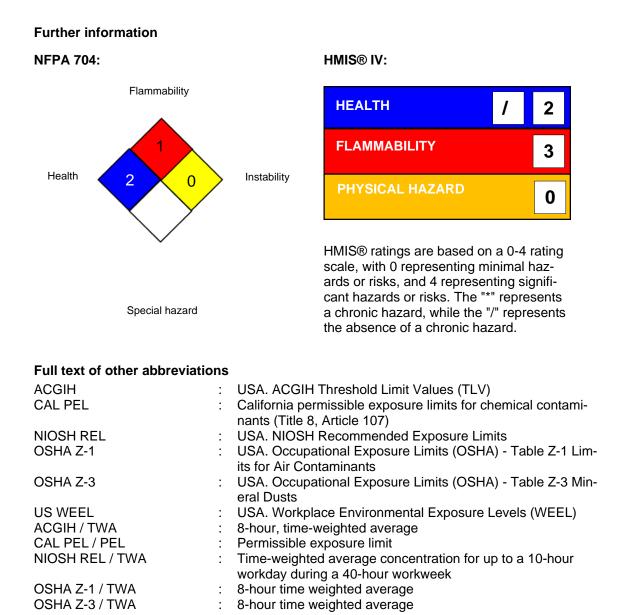


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### **Sitagliptin Formulation**

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|----------------|------------------------------|-------|-------------------------|---|--|
| Califo         | ornia Permissible Exp        | osur  | e Limits for Che        | mical Contaminants  |  |
|                | Cellulose<br>Magnesium stear | ate   |                         | 9004-34-6<br>557-04-0   |  |
| The i          | ngredients of this pro       | oduct | are reported in t       | he following inventories:   |  |
| AICS           |                              | :     | not determined          |   |  |
| DSL            |                              | :     | not determined          |   |  |
| IECS           | C                            | :     | not determined          |   |  |

#### **SECTION 16. OTHER INFORMATION**







### Sitagliptin Formulation

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AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials: bw - Body weight: CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

| Sources of key data used to : Inter | nal technical data, data from raw material SDSs, OECD                           |
|-------------------------------------|---|
|                                     | em Portal search results and European Chemicals Agen-<br>http://echa.europa.eu/ |

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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.

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