

| Versi<br>7.0   | ion                                    | Revision Date:<br>06.07.2024 |  | S Number:<br>513-00026           | Date of last issue: 06.04.2024<br>Date of first issue: 02.04.2015 |  |  |  |
|----------------|--|------------------------------|--|----------------------------------|---|--|--|--|
| SEC            | SECTION 1. IDENTIFICATION              |                              |  |                                  |   |  |  |  |
| I              | Product name                           |                              | :  | Efavirenz Solid F                | Formulation   |  |  |  |
|                | <b>Manuf</b> a<br>Compa                | acturer or supplier's o      | deta<br>:  | ils<br>MSD                       |   |  |  |  |
| Address        |  | :                            | 855 Leandro N. Alem St., 8 Floor<br>Buenos Aires, Argentina C1001AFB |                                  |   |  |  |  |
| -              | Telephone                              |                              | :  | 908-740-4000                     |   |  |  |  |
| ļ              | Emergency telephone                    |                              | :  | 1-908-423-6000                   |   |  |  |  |
| E-mail address |  | :                            | EHSDATASTEWARD@msd.com   |                                  |   |  |  |  |
| l              | Recom                                  | nmended use of the c         | hem  | ical and restriction             | ons on use  |  |  |  |
|                | Recommended use<br>Restrictions on use |                              | :  | Pharmaceutical<br>Not applicable |   |  |  |  |

### SECTION 2. HAZARDS IDENTIFICATION

| GHS Classification                                 |   |   |
|--|---|---|
| Acute toxicity (Oral)                              | : | Category 4                                |
| Skin corrosion/irritation                          | : | Category 3                                |
| Serious eye damage/eye irritation                  | : | Category 2A                               |
| Reproductive toxicity                              | : | Category 1B                               |
| Specific target organ toxicity - repeated exposure | : | Category 1 (Central nervous system, Skin) |
| Short-term (acute) aquatic hazard                  | : | Category 1                                |
| Long-term (chronic) aquatic<br>hazard              | : | Category 1                                |
| GHS label elements<br>Hazard pictograms            | : |   |
| Signal Word  | : | Danger                                    |



## **Efavirenz Solid Formulation**

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| Haza           | rd Statements                | H319 Causes<br>H360D May o<br>H372 Causes<br>Skin) through   | l if swallowed.<br>mild skin irritation.<br>serious eye irritation.<br>lamage the unborn child.<br>damage to organs (Central nervous system,<br>prolonged or repeated exposure.<br>xic to aquatic life with long lasting effects.   |
| Preca          | autionary Statements         | P202 Do not<br>and understo<br>P260 Do not<br>P264 Wash s<br>P270 Do not<br>P273 Avoid re                          | breathe dust.<br>kin thoroughly after handling.<br>eat, drink or smoke when using this product.<br>elease to the environment.<br>rotective gloves/ protective clothing/ eye protec-   |
|                |                              | CENTER/ dou<br>P305 + P351<br>for several mi<br>easy to do. C<br>P308 + P313<br>attention.<br>P332 + P313<br>tion. | <ul> <li>+ P330 IF SWALLOWED: Call a POISON<br/>ctor if you feel unwell. Rinse mouth.</li> <li>+ P338 IF IN EYES: Rinse cautiously with water<br/>nutes. Remove contact lenses, if present and<br/>ontinue rinsing.</li> <li>IF exposed or concerned: Get medical advice/</li> <li>If skin irritation occurs: Get medical advice/ atter</li> <li>If eye irritation persists: Get medical advice/ at-<br/>spillage.</li> </ul> |
|                |                              | <b>Storage:</b><br>P405 Store Ic   | cked up.  |
|                |                              | <b>Disposal:</b><br>P501 Dispose<br>disposal plan  | e of contents/ container to an approved waste<br>t.   |

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) |
|--------------------------|-------------|-----------------------|
| Efavirenz                | 154598-52-4 | >= 30 -< 50           |
| Cellulose                | 9004-34-6   | >= 10 -< 20           |
| Magnesium stearate       | 557-04-0    | >= 1 -< 5             |
| Sodium n-dodecyl sulfate | 151-21-3    | >= 1 -< 2,5           |



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| Titan   | Titanium dioxide             |   | 13463-67-7   | >= 0,1 -< 1   |
| SECTION   | 4. FIRST AID MEASUR          | ES  |  |   |
| Gene  | eral advice                  | advice imm  | ,  | el unwell, seek medical<br>ases of doubt seek medical                             |
| lf inh  | aled                         |   | emove to fresh air.  |   |
| In ca   | se of skin contact           | : In case of o<br>Remove co<br>Get medica<br>Wash cloth | contact, immediately flue<br>ontaminated clothing an                             |   |
| In ca   | se of eye contact            | : In case of of for at least If easy to d               |  | sh eyes with plenty of water  |
| lf swa  | allowed                      | : If swallowe<br>Get medica<br>Rinse mou                | d, DO NOT induce vom   | r.  |
| Most important symptoms and effects, both acute and delayed |                              | : Harmful if s<br>Causes mil<br>Causes se<br>May damag  | wallowed.<br>d skin irritation.<br>rious eye irritation.<br>ge the unborn child. | n prolonged or repeated   |
| Prote   | ection of first-aiders       | : First Aid re<br>and use the                           |  | ttention to self-protection,<br>al protective equipment<br>kists (see section 8). |
| Note  | s to physician               |   | tomatically and support  |   |
| SECTION   | 5. FIRE-FIGHTING ME          | ASURES  |  |   |
| Suita   | ble extinguishing media      | : Water spra<br>Alcohol-res<br>Carbon dio<br>Dry chemic | istant foam<br>xide (CO2)  |   |
| Unsu<br>medi  | itable extinguishing<br>a    | : None know   |  |   |
| Specific hazards during fire                                |                              | concentrati   |  | spersed in air in sufficient<br>te of an ignition source is a                     |

| fighting                   | 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 prod- | Carbon oxides<br>Metal oxides<br>Sulfur oxides  |

| Specific extinguishing meth-<br>ods | : | Use extinguishing measures that are appropriate to local cir-<br>cumstances and the surrounding environment. |
|-------------------------------------|---|--|
| 003                                 |   | Use water spray to cool unopened containers.   |



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|                | al protective equipment<br>e-fighters                        | :  | so.<br>Evacuate area.<br>In the event of fi   | aged containers from fire area if it is safe to o<br>re, wear self-contained breathing apparatus.<br>otective equipment.                           |
| SECTION        | 6. ACCIDENTAL RELE   | AS | E MEASURES  |  |
| tive e         | nal precautions, protec-<br>quipment and emer-<br>procedures | :  | Follow safe han   | otective equipment.<br>dling advice (see section 7) and personal<br>ment recommendations (see section 8).  |
| Enviro         | onmental precautions   | :  | Prevent further I Retain and dispo  | the environment.<br>eakage or spillage if safe to do so.<br>ose of contaminated wash water.<br>should be advised if significant spillages<br>ined. |
|                | ods and materials for<br>inment and cleaning up              | :  | container for dis<br>Avoid dispersal<br>with compressed<br>Dust deposits sh<br>surfaces, as the<br>released into the<br>Local or nationa<br>disposal of this r<br>employed in the<br>determine which<br>Sections 13 and | of dust in the air (i.e., clearing dust surfaces   |

#### SECTION 7. HANDLING AND STORAGE

| Technical measures      | <ul> <li>Static electricity may accumulate and ignite suspended dust<br/>causing an explosion.</li> <li>Provide adequate precautions, such as electrical grounding<br/>and bonding, or inert atmospheres.</li> </ul>  |
|-------------------------|---|
| Local/Total ventilation | : If sufficient ventilation is unavailable, use with local exhaust ventilation.   |
| Advice on safe handling | <ul> <li>Do not get on skin or clothing.<br/>Do not breathe dust.<br/>Do not swallow.<br/>Do not get in eyes.<br/>Wash skin thoroughly after handling.<br/>Handle in accordance with good industrial hygiene and safety<br/>practice, based on the results of the workplace exposure<br/>assessment<br/>Keep container tightly closed.<br/>Minimize dust generation and accumulation.<br/>Keep container closed when not in use.<br/>Keep away from heat and sources of ignition.<br/>Take precautionary measures against static discharges.</li> </ul> |



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|--|---|
| Do not eat, drink or smoke when using<br>Take care to prevent spills, waste and renvironment.Conditions for safe storage: Keep in properly labeled containers.<br>Store locked up.<br>Keep tightly closed.<br>Store in accordance with the particularMaterials to avoid: Do not store with the following product<br>Strong oxidizing agents<br>Self-reactive substances and mixtures<br>Organic peroxides<br>Explosives<br>Gases | ninimize release to the national regulations. |

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Components         | CAS-No.        | Value type<br>(Form of<br>exposure) | Control parame-<br>ters / Permissible<br>concentration | Basis        |
|--------------------|----------------|-------------------------------------|--|--------------|
| Efavirenz          | 154598-52-4    | TWA                                 | 100 µg/m <sup>3</sup>                                  | Internal     |
| Cellulose          | 9004-34-6      | CMP                                 | 10 mg/m <sup>3</sup>                                   | AR OEL       |
|                    |                | TWA                                 | 10 mg/m <sup>3</sup>                                   | ACGIH        |
| Magnesium stearate | 557-04-0       | CMP                                 | 10 mg/m <sup>3</sup>                                   | AR OEL       |
|                    | Further inform | ation: A4 - Not c                   | lassifiable as a huma                                  | n carcinogen |
|                    |                | TWA                                 | 10 mg/m <sup>3</sup>                                   | ACGIH        |
|                    |                | (Inhalable                          |  |              |
|                    |                | particulate                         |  |              |
|                    |                | matter)                             |  |              |
|                    |                | TWA                                 | 3 mg/m <sup>3</sup>                                    | ACGIH        |
|                    |                | (Respirable                         |  |              |
|                    |                | particulate                         |  |              |
|                    |                | matter)                             |  |              |
| Titanium dioxide   | 13463-67-7     | CMP                                 | 10 mg/m <sup>3</sup>                                   | AR OEL       |
|                    | Further inform | ation: A4 - Not c                   | lassifiable as a huma                                  | n carcinogen |

#### Ingredients with workplace control parameters

| Engineering measures :           | Minimize workplace exposure concentrations.<br>Apply measures to prevent dust explosions.<br>Ensure that dust-handling systems (such as exhaust ducts,<br>dust collectors, vessels, and processing equipment) are<br>designed in a manner to prevent the escape of dust into the<br>work area (i.e., there is no leakage from the equipment).<br>If sufficient ventilation is unavailable, use with local exhaust<br>ventilation. |
|----------------------------------|---|
| Personal protective equipment    | t i i i i i i i i i i i i i i i i i i i   |
| Respiratory protection :         | If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.  |
| Filter type :<br>Hand protection | Particulates type   |

Material



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|----------------|------------------------------|---|--|--|--|--|
|                |                              |   |  |  |  |  |
| Re             | emarks                       | : Choose gloves to protect hands against chemicals depending<br>on the concentration specific to place of work. Breakthrough<br>time is not determined for the product. Change gloves often!<br>For special applications, we recommend clarifying the<br>resistance to chemicals of the aforementioned protective<br>gloves with the glove manufacturer. Wash hands before<br>breaks and at the end of workday. |  |  |  |  |
| Eye p          | protection                   |   | : Wear the following personal protective equipment:<br>Safety goggles  |  |  |  |
| Skin a         | and body protection          | : Select appro<br>resistance da<br>potential.<br>Skin contact   | Select appropriate protective clothing based on chemical<br>resistance data and an assessment of the local exposure<br>potential.<br>Skin contact must be avoided by using impervious protective<br>clothing (gloves, aprons, boots, etc). |  |  |  |
| Hygie          | ne measures                  | : If exposure t<br>eye flushing<br>working plac<br>When using   | o chemical is likely during typical use, provide systems and safety showers close to the   |  |  |  |

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance  | : | powder  |
|---|---|---|
| Color   | : | white to off-white  |
| 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   | : | No data available   |
| Evaporation rate                                    | : | No data available   |
| Flammability (solid, gas)                           | : | May form explosive dust-air mixture during processing, handling or other means. |
| Flammability (liquids)                              | : | No data available   |
| Upper explosion limit / Upper<br>flammability limit | : | No data available   |
| Lower explosion limit / Lower<br>flammability limit | : | No data available   |
| Vapor pressure                                      | : | No data available   |



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|---------------|---|------------------------------|---|------------------------|---|--|--|--|
| R             | Relative vapor density                    |                              | : | No data available      | 9   |  |  |  |
| C             | Density                                   |                              | : | No data available      | 9   |  |  |  |
| S             | Solubility(ies)<br>Water solubility       |                              | : | No data available      | 9   |  |  |  |
|               | Partitior                                 | n coefficient: n-<br>/water  | : | : No data available    |   |  |  |  |
|               |   | ition temperature            | : | No data available      | 9   |  |  |  |
| C             | Decomp                                    | position temperature         | : | No data available      | 9   |  |  |  |
| V             | Viscosity<br>Viscosity, dynamic           |                              | : | No data available      | 9   |  |  |  |
|               | Viscosity, kinematic                      |                              | : | No data available      | 9   |  |  |  |
| E             | Explosive properties                      |                              | : | Not explosive          |   |  |  |  |
| С             | Oxidizing properties                      |                              | : | The substance o        | r mixture is not classified as oxidizing.                         |  |  |  |
| N             | Nolecul                                   | ar weight                    | : | No data available      | 9   |  |  |  |
| -             | Particle characteristics<br>Particle size |                              | : | No data available      | 9   |  |  |  |

#### SECTION 10. STABILITY AND REACTIVITY

| Reactivity<br>Chemical stability<br>Possibility of hazardous reac-<br>tions | <ul> <li>Not classified as a reactivity hazard.</li> <li>Stable under normal conditions.</li> <li>May form explosive dust-air mixture during processing,<br/>handling or other means.</li> <li>Can react with strong oxidizing agents.</li> </ul> |
|---|---|
| Conditions to avoid   | : Heat, flames and sparks.<br>Avoid dust formation.   |
| Incompatible materials  | : Oxidizing agents  |
| Hazardous decomposition<br>products   | No hazardous decomposition products are known.  |

#### SECTION 11. TOXICOLOGICAL INFORMATION

| Information on likely routes of :<br>exposure | Inhalation<br>Skin contact<br>Ingestion<br>Eye contact |
|---|--|
| Acute toxicity<br>Harmful if swallowed.       |  |
| Product:<br>Acute oral toxicity :             | Acute toxicity estimate: 849,05 mg/kg                  |



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|                           |                           |   | Method: Calcula   | tion method  |
| <u>Comp</u>               | oonents:                  |   |   |  |
| Efavi                     | renz:                     |   |   |  |
| Acute                     | oral toxicity             | : | LD50 (Rat, fema   | ale): 419 mg/kg  |
|                           |                           |   | LDLo (Rat, male   | e): 1.000 mg/kg  |
| Cellu                     | lose:                     |   |   |  |
| Acute                     | oral toxicity             | : | LD50 (Rat): > 5.  | 000 mg/kg  |
| Acute inhalation toxicity |                           | : | LC50 (Rat): > 5,<br>Exposure time: -<br>Test atmosphere   | 4 h  |
| Acute                     | dermal toxicity           | : | LD50 (Rabbit): >  | > 2.000 mg/kg  |
| Magn                      | esium stearate:           |   |   |  |
| Acute                     | oral toxicity             | : | Assessment: Th<br>icity   | 000 mg/kg<br>Test Guideline 423<br>e substance or mixture has no acute oral to<br>d on data from similar materials |
| Acute                     | Acute dermal toxicity     |   | LD50 (Rabbit): ><br>Remarks: Based  | > 2.000 mg/kg<br>d on data from similar materials  |
| Sodiu                     | Im n-dodecyl sulfate:     | 1 |   |  |
|                           | oral toxicity             |   | LD50 (Rat): 1.20<br>Method: OECD  | 00 mg/kg<br>Test Guideline 401   |
| Acute                     | dermal toxicity           | : | LD50 (Rat): > 2.000 mg/kg<br>Method: OECD Test Guideline 402<br>Remarks: Based on data from similar materials |  |
| Titani                    | um dioxide:               |   |   |  |
| Acute                     | oral toxicity             | : | LD50 (Rat): > 5.  | 000 mg/kg  |
| Acute                     | inhalation toxicity       | : | LC50 (Rat): > 6,<br>Exposure time: -<br>Test atmosphere<br>Assessment: The<br>tion toxicity                   | 4 h  |
| -                         | corrosion/irritation      |   |   |  |

#### Components:

#### Efavirenz:



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|--------------------|--|---|---|
|                    | :  | Mild skin irritation slight irritation  |   |
| um stearate:       |  |   |   |
|                    |  |   |   |
|                    | <ul><li>No skin irritation</li><li>Based on data from similar materials</li></ul>  |   | m similar materials   |
| n-dodecyl sulfate: |  |   |   |
| Species<br>Result  |  | Rabbit<br>Skin irritation   |   |
| dioxide:           |  |   |   |
|                    | :  | Rabbit<br>No skin irritation  |   |
| ents:<br>z:        | :  | Moderate eye irrit  | ation   |
| um stearate:       |  |   |   |
|                    | :  | Rabbit  |   |
|                    | :  | No eye irritation<br>Based on data fro  | m similar materials   |
| n-dodecyl sulfate: |  |   |   |
| -                  | :  |   |   |
|                    | :  | Irreversible effects<br>OECD Test Guide   |   |
| dioxide:           |  |   |   |
|                    | :  | Rabbit  |   |
|                    | n-dodecyl sulfate:<br>dioxide:<br>eye damage/eye irri<br>erious eye irritation.<br>ents:<br>z:<br>um stearate:<br>n-dodecyl sulfate: | n-dodecyl sulfate:<br>dioxide:<br>eye damage/eye irritati<br>erious eye irritation.<br>ents:<br>z:<br>um stearate:<br>i<br>n-dodecyl sulfate: | <ul> <li>Rabbit</li> <li>No skin irritation</li> <li>Based on data from</li> <li>Based on data from</li> <li>Rabbit</li> <li>Skin irritation</li> <li>Skin irritation</li> <li>Skin irritation</li> <li>Rabbit</li> <li>No skin irritation</li> <li>No skin irritation</li> <li>Rabbit</li> <li>No skin irritation</li> <li>Rabbit</li> <li>No skin irritation</li> <li>Based on data from</li> <li>Moderate eye irritation</li> <li>Based on data from</li> <li>Based on data from</li> <li>Based on data from</li> <li>Based on data from</li> <li>Rabbit</li> <li>No eye irritation</li> <li>Based on data from</li> </ul> |



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| Spec<br>Asse                                  | Routes of exposure<br>Species<br>Assessment<br>Result |  | oig<br>cause skin sensitization.   |
| Magi  | nesium stearate:                                      |  |  |
| Test<br>Rout<br>Spec<br>Meth<br>Resu<br>Rem   | es of exposure<br>ies<br>od<br>It                     | : Skin con<br>: Guinea p<br>: OECD T<br>: negative   |  |
| Sodi  | um n-dodecyl sulfate                                  | ):   |  |
| Test<br>Rout<br>Spec<br>Resu<br>Rem           | es of exposure<br>ies<br>lt                           | : Skin con<br>: Guinea p<br>: negative   |  |
| Titar   | ium dioxide:  |  |  |
| Test<br>Rout<br>Spec<br>Resu                  | es of exposure<br>ies                                 | <ul> <li>Local lymph node assay (LLNA)</li> <li>Skin contact</li> <li>Mouse</li> <li>negative</li> </ul>   |  |
|   | n <b>cell mutagenicity</b><br>classified based on ava | ailable informatic   | n.   |
|   |   |  |  |
|   | ponents:  |  |  |
| Efav  | ponents:<br>irenz:<br>otoxicity in vitro              | : Test Typ<br>Result: r  | e: Bacterial reverse mutation assay (AMES)<br>egative  |
| Efav  | irenz:  | Result: r  | egative<br>e: In vitro mammalian cell gene mutation test   |
| Efav  | irenz:  | Result: r<br>Test Typ<br>Result: r   | egative<br>e: In vitro mammalian cell gene mutation test<br>egative<br>e: Chromosome aberration test in vitro  |
| <b>Efav</b><br>Geno                           | irenz:  | Result: r<br>Test Typ<br>Result: r<br>Test Typ<br>Result: r<br>: Test Typ<br>cytogene<br>Species:  | egative<br>e: In vitro mammalian cell gene mutation test<br>egative<br>e: Chromosome aberration test in vitro<br>egative<br>e: Mammalian erythrocyte micronucleus test (in vivo<br>etic assay)<br>Mouse<br>on Route: Oral  |
| Efav<br>Geno<br>Geno                          | irenz:<br>otoxicity in vitro                          | Result: r<br>Test Typ<br>Result: r<br>Test Typ<br>Result: r<br>: Test Typ<br>cytogene<br>Species:<br>Applicati<br>Result: r                            | egative<br>e: In vitro mammalian cell gene mutation test<br>egative<br>e: Chromosome aberration test in vitro<br>egative<br>e: Mammalian erythrocyte micronucleus test (in vivo<br>etic assay)<br>Mouse<br>on Route: Oral<br>egative<br>f evidence does not support classification as a germ |
| Efav<br>Gend<br>Gend<br>Gend<br>Asse<br>Cellu | otoxicity in vitro                                    | Result: r<br>Test Typ<br>Result: r<br>Test Typ<br>Result: r<br>: Test Typ<br>cytogene<br>Species:<br>Applicati<br>Result: r<br>: Weight c<br>cell muta | egative<br>e: In vitro mammalian cell gene mutation test<br>egative<br>e: Chromosome aberration test in vitro<br>egative<br>e: Mammalian erythrocyte micronucleus test (in vivo<br>etic assay)<br>Mouse<br>on Route: Oral<br>egative<br>f evidence does not support classification as a germ |



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|----------------------|------------------------------|--|---|--|--|
| II                   |                              | Result: negat  | ive   |  |  |
|                      |                              | Test Type: In<br>Result: negat   | vitro mammalian cell gene mutation test ive   |  |  |
| Genotoxicity in vivo |                              | : Test Type: Mammalian erythrocyte micronucleus test<br>cytogenetic assay)<br>Species: Mouse<br>Application Route: Ingestion<br>Result: negative |   |  |  |
| Magn                 | esium stearate:              |  |   |  |  |
| Geno                 | toxicity in vitro            | Result: negat  | vitro mammalian cell gene mutation test<br>ive<br>sed on data from similar materials                    |  |  |
|                      |                              | Method: OEC<br>Result: negat   | hromosome aberration test in vitro<br>D Test Guideline 473<br>ive<br>sed on data from similar materials |  |  |
|                      |                              | Result: negat  | acterial reverse mutation assay (AMES)<br>ive<br>sed on data from similar materials                     |  |  |
| Sodiu                | um n-dodecyl sulfate:        |  |   |  |  |
| Geno                 | toxicity in vitro            |  | acterial reverse mutation assay (AMES)<br>D Test Guideline 471<br>ive                                   |  |  |
|                      |                              | Test Type: In<br>Result: negat   | vitro mammalian cell gene mutation test<br>ive  |  |  |
| Geno                 | toxicity in vivo             | Species: Mou   | oute: Ingestion   |  |  |
| Titan                | ium dioxide:                 |  |   |  |  |
| Geno                 | toxicity in vitro            | : Test Type: Ba<br>Result: negat   | acterial reverse mutation assay (AMES)<br>ive   |  |  |
| Geno                 | toxicity in vivo             | : Test Type: In<br>Species: Mou<br>Result: negat   |   |  |  |

#### Carcinogenicity

Not classified based on available information.



| /ersion<br>7.0                        | Revision Date:<br>06.07.2024                          | SDS Number:<br>88513-00026  | Date of last issue: 06.04.2024<br>Date of first issue: 02.04.2015                     |
|---------------------------------------|---|---|---|
| Compo                                 | onents:   |   |   |
| Exposu                                | s<br>ation Route<br>ure time<br>Organs                | : Mouse<br>: Oral<br>: 2 Years<br>: Lungs, Liver<br>: The mechanism<br>mans.  | or mode of action may not be relevant in hu-  |
| Specie<br>Applica<br>Exposu<br>Result | s<br>ation Route<br>ure time                          | : Rat<br>: Oral<br>: 2 Years<br>: negative  |   |
| Celluic                               | ose:  |   |   |
|                                       | ation Route<br>ure time                               | : Rat<br>: Ingestion<br>: 72 weeks<br>: negative  |   |
| Sodiur                                | n n-dodecyl sulfate:                                  |   |   |
|                                       | ation Route<br>ure time<br>d                          | <ul> <li>Rat</li> <li>Ingestion</li> <li>2 Years</li> <li>OECD Test Guid</li> <li>negative</li> <li>Based on data fr</li> </ul>             | eline 453<br>om similar materials   |
| Titaniu                               | ım dioxide:   |   |   |
|                                       | ation Route<br>ure time<br>d                          | <ul> <li>Rat</li> <li>inhalation (dust/r</li> <li>2 Years</li> <li>OECD Test Guic</li> <li>positive</li> <li>The mechanism mans.</li> </ul> |   |
| Carcino<br>ment                       | ogenicity - Assess-                                   | : Limited evidence animals.   | of carcinogenicity in inhalation studies with   |
| May da                                | ductive toxicity<br>amage the unborn child<br>onents: |   |   |
| Efavire                               |   | Or a size D   |   |
| Effects                               | on fertility  |   | e: Oral<br>200 - 400 mg/kg body weight<br>s on fertility and early embryonic develop- |



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|                |                                      |   |  |   |
| Ef             | Effects on fetal development         |   | Species: Rat<br>Application Route  | oxicity: LOAEL: 50 mg/kg body weight  |
|                |                                      |   | Species: Monkey<br>Application Route<br>Developmental To                                     |   |
|                |                                      |   | Species: Rabbit<br>Application Route   | oxicity: NOAEL: 75 mg/kg body weight  |
|                | eproductive toxicity - As-<br>ssment | : | Clear evidence of animal experiment  | adverse effects on development, based on tts.   |
| Ce             | ellulose:                            |   |  |   |
| Ef             | fects on fertility                   | : | Test Type: One-g<br>Species: Rat<br>Application Route<br>Result: negative                    | eneration reproduction toxicity study<br>: Ingestion  |
| Ef             | fects on fetal development           | : | Test Type: Fertilit<br>Species: Rat<br>Application Route<br>Result: negative                 | y/early embryonic development<br>: Ingestion  |
| Ma             | agnesium stearate:                   |   |  |   |
| Ef             | fects on fertility                   | : | reproduction/deve<br>Species: Rat<br>Application Route<br>Method: OECD T<br>Result: negative | ined repeated dose toxicity study with the<br>elopmental toxicity screening test<br>e: Ingestion<br>est Guideline 422<br>on data from similar materials |
| Ef             | fects on fetal development           | : | Species: Rat<br>Application Route<br>Result: negative  | vo-fetal development<br>:: Ingestion<br>on data from similar materials  |
| Sc             | odium n-dodecyl sulfate:             |   |  |   |
| Ef             | fects on fertility                   | : | Test Type: Two-g<br>Species: Rat<br>Application Route<br>Method: OECD T                      |   |
|                |                                      |   |  |   |



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|----------------|---|------|--|---|--|--|
|                |   |      | Result: negative<br>Remarks: Based   | on data from similar materials                                    |  |  |
| Eff            | Effects on fetal development                              |      | Test Type: Embryo-fetal development<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative<br>Remarks: Based on data from similar materials |   |  |  |
|                | <b>OT-single exposure</b><br>t classified based on availa | able | information.   |   |  |  |
| ST             | OT-repeated exposure                                      |      |  |   |  |  |
|                | uses damage to organs (C<br>posure.                       | enti | ral nervous system   | , Skin) through prolonged or repeated                             |  |  |
| <u>Co</u>      | mponents:   |      |  |   |  |  |
| Efa            | virenz:   |      |  |   |  |  |
|                | rget Organs<br>sessment                                   | :    | Central nervous s<br>Causes damage<br>exposure.  | system<br>to organs through prolonged or repeated                 |  |  |
| Re             | peated dose toxicity                                      |      |  |   |  |  |
| <u>Co</u>      | mponents:   |      |  |   |  |  |
| Efa            | virenz:   |      |  |   |  |  |
|                | ecies<br>AEL  | :    | Rat<br>50 mg/kg  |   |  |  |
| Ар             | olication Route   | :    | Oral   |   |  |  |
| Exp<br>Tai     | oosure time<br>get Organs                                 | :    | 3 Months<br>Kidney   |   |  |  |
| Sp             | ecies   | :    | Monkey   |   |  |  |
| LO             | AEL   | :    | 100 mg/kg  |   |  |  |
| Ap             | olication Route   | :    | Oral<br>1 - 2 y  |   |  |  |
| Tai            | get Organs  | :    |  | system, Liver, Kidney, Thyroid, Adrenal gland                     |  |  |
|                | ecies   | :    | Monkey   |   |  |  |
|                | AEL<br>olication Route                                    | :    | 90 mg/kg<br>Oral   |   |  |  |
| Exp            | posure time   | ÷    | 1 Months   |   |  |  |
|                | get Organs<br>nptoms                                      | :    | Central nervous s<br>Lethargy, Weakn   |   |  |  |
| Ce             | llulose:  |      |  |   |  |  |
| Sp             | ecies   | :    | Rat  |   |  |  |
| NO             | AEL   | :    | >= 9.000 mg/kg   |   |  |  |
| Ap             | olication Route   | :    | Ingestion<br>90 Days   |   |  |  |
| '              |   |      |  |   |  |  |



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| Speci<br>NOAE<br>Applio      | EL<br>cation Route<br>sure time                                     | : Rat<br>: > 100 mg/kg<br>: Ingestion<br>: 90 Days<br>: Based on data f | rom similar materials   |
| Speci<br>NOAE<br>Applio      | EL<br>cation Route<br>sure time                                     | : Rat<br>: 488 mg/kg<br>: Ingestion<br>: 90 Days                        | rom similar materials   |
| Speci<br>NOAE<br>Applie      | EL<br>cation Route<br>sure time                                     | : Rat<br>: 24.000 mg/kg<br>: Ingestion<br>: 28 Days<br>: Rat            |   |
| NOAE<br>Applie               |   | : 10 mg/m <sup>3</sup><br>: inhalation (dust/<br>: 2 y                  | /mist/fume)   |
| Not cl                       | ration toxicity<br>lassified based on avail<br>rience with human ex |   |   |
| <u>Com</u><br>Efavi<br>Inges |   | : Target Organs:<br>Symptoms: Ras<br>Target Organs:                     | h<br>Central nervous system                                       |
| SECTION                      | 12. ECOLOGICAL INF  | Target Organs:<br>Symptoms: irreg                                       |   |
|                              | oxicity<br>oonents:   |   |   |
|                              |   |   |   |
| <b>Efavi</b><br>Toxic        | renz:<br>ity to fish  | : LC50 (Lepomis<br>Exposure time:<br>Method: FDA 4.                     |   |



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| II                        |   |   | Method: FDA 4.08   | 3  |
|                           | Toxicity to algae/aquatic plants                                |   | NOEC (Selenastru<br>Exposure time: 12<br>Method: FDA 4.01                              |  |
|                           |   |   | NOEC (Microcysti<br>Exposure time: 12<br>Method: FDA 4.01                              | is aeruginosa (blue-green algae)): 0,76 mg/l<br>2 d<br>1   |
|                           | ctor (Acute aquatic tox-  | : | 1  |  |
| icity)<br>Toxic<br>icity) | ity to fish (Chronic tox-                                       | : | NOEC (Pimephale<br>Exposure time: 33<br>Method: OECD Te                                |  |
|                           | ity to daphnia and other<br>tic invertebrates (Chron-<br>icity) | : | NOEC (Daphnia r<br>Exposure time: 21<br>Method: OECD Te                                |  |
| M-Factoric                | ctor (Chronic aquatic<br>ty)                                    | : | 1  |  |
| Cellu                     | lose:   |   |  |  |
| Toxic                     | ity to fish   | : | Exposure time: 48  | ipes (Japanese medaka)): > 100 mg/l<br>3 h<br>on data from similar materials                                       |
| Magn                      | nesium stearate:  |   |  |  |
| Toxic                     | ity to fish   | : | Exposure time: 48<br>Method: DIN 384   |  |
|                           | ity to daphnia and other<br>tic invertebrates                   | : | Exposure time: 47  |  |
|                           |   |   | Method: Directive  | Vater Accommodated Fraction<br>67/548/EEC, Annex V, C.2.<br>on data from similar materials<br>limit of solubility. |
| Toxic<br>plants           | ity to algae/aquatic<br>s                                       | : | mg/l<br>Exposure time: 72<br>Test substance: V<br>Method: OECD To<br>Remarks: Based of | Vater Accommodated Fraction<br>est Guideline 201<br>on data from similar materials                                 |
|                           |   |   | mg/l<br>Exposure time: 72<br>Test substance: V<br>Method: OECD To                      | rirchneriella subcapitata (green algae)): > 1<br>2 h<br>Vater Accommodated Fraction                                |



| rsion<br>)                 | Revision Date:<br>06.07.2024                        |     | DS Number:<br>513-00026                               | Date of last issue: 06.04.2024<br>Date of first issue: 02.04.2015                                |
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| Toxicity to microorganisms |   | :   | Exposure time: 10<br>Test substance: V                | onas putida): > 100 mg/l<br>6 h<br>Water Accommodated Fraction<br>on data from similar materials |
| Sodiu                      | Im n-dodecyl sulfate:                               |     |   |  |
| Toxici                     | ty to fish  | :   | LC50 (Pimephale<br>Exposure time: 96                  | es promelas (fathead minnow)): 29 mg/l<br>6 h  |
|                            | ty to daphnia and other<br>ic invertebrates         | :   | EC50 (Ceriodaph<br>Exposure time: 48                  | nia dubia (water flea)): 5,55 mg/l<br>8 h  |
| Toxici<br>plants           | ty to algae/aquatic                                 | :   | ErC50 (Desmode<br>Exposure time: 72                   | esmus subspicatus (green algae)): > 120 mg<br>2 h  |
|                            |   |     | NOEC (Desmode<br>Exposure time: 72                    | esmus subspicatus (green algae)): 30 mg/l<br>2 h   |
| Toxici<br>icity)           | ty to fish (Chronic tox-                            | :   | NOEC (Pimephal<br>mg/l<br>Exposure time: 42           | les promelas (fathead minnow)): >= 1,357<br>2 d  |
| aquati                     | ty to daphnia and other<br>ic invertebrates (Chron- | :   | NOEC (Ceriodap<br>Exposure time: 7                    | hnia dubia (water flea)): 0,88 mg/l<br>d   |
|                            | c toxicity)<br>Foxicity to microorganisms           |     | EC50: 135 mg/l<br>Exposure time: 3                    | h  |
| II<br>Titani               | um dioxide:   |     |   |  |
|                            | ty to fish  | :   | Exposure time: 96                                     | chus mykiss (rainbow trout)): > 100 mg/l<br>6 h<br>rest Guideline 203                            |
|                            | ty to daphnia and other<br>ic invertebrates         | :   | EC50 (Daphnia m<br>Exposure time: 48                  | nagna (Water flea)): > 100 mg/l<br>8 h   |
| Toxici<br>plants           | ty to algae/aquatic                                 | :   | EC50 (Skeletone<br>Exposure time: 72                  | ma costatum (marine diatom)): > 10.000 mg<br>2 h   |
| Toxici                     | ty to microorganisms                                | :   | EC50: > 1.000 m<br>Exposure time: 3<br>Method: OECD T |  |
| Persis                     | stence and degradabil                               | ity |   |  |
| <u>Comp</u>                | oonents:  |     |   |  |
| Efavir                     |   |     |   |  |
|                            |   |     |   |  |

| Biodegradability | : | Result: Not readily biodegradable.<br>Biodegradation: 11 % |
|------------------|---|--|
|                  |   | Exposure time: 32 d  |
|                  |   | Method: FDA 3.11   |



| rsion<br>)       | Revision Date:<br>06.07.2024             |     | S Number:<br>513-00026  | Date of last issue: 06.04.2024<br>Date of first issue: 02.04.2015                  |  |  |
|------------------|--|-----|---|--|--|--|
|                  |  |     |   |  |  |  |
| Cellul           | lose:                                    |     |   |  |  |  |
| Biode            | gradability                              | :   | Result: Readily   | v biodegradable.   |  |  |
| Magn             | esium stearate:                          |     |   |  |  |  |
| Biode            | gradability                              | :   | Result: Not biodegradable<br>Remarks: Based on data from similar materials  |  |  |  |
| Sodiu            | Im n-dodecyl sulfate:                    |     |   |  |  |  |
| Biodegradability |  | :   | <ul> <li>Result: Readily biodegradable.</li> <li>Biodegradation: 95 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD Test Guideline 301B</li> </ul> |  |  |  |
| Bioac            | cumulative potential                     |     |   |  |  |  |
| Comp             | oonents:                                 |     |   |  |  |  |
| Efavir           | renz:                                    |     |   |  |  |  |
| Bioac            | cumulation                               | :   | Bioconcentrati  | mis macrochirus (Bluegill sunfish)<br>on factor (BCF): 454<br>) Test Guideline 305 |  |  |
|                  | on coefficient: n-<br>ol/water           | :   | log Pow: 5,4  |  |  |  |
| Magn             | esium stearate:                          |     |   |  |  |  |
|                  | on coefficient: n-<br>ol/water           | :   | log Pow: > 4  |  |  |  |
| Sodiu            | Im n-dodecyl sulfate:                    |     |   |  |  |  |
|                  | on coefficient: n-<br>ol/water           | :   | log Pow: 0,83   |  |  |  |
| Mobil            | ity in soil                              |     |   |  |  |  |
| <u>Comp</u>      | oonents:                                 |     |   |  |  |  |
| Efavir           | renz:                                    |     |   |  |  |  |
|                  | oution among environ-<br>al compartments | :   | : log Koc: 3,36<br>Method: FDA 3.08   |  |  |  |
| Other            | adverse effects                          |     |   |  |  |  |
| No da            | ta available                             |     |   |  |  |  |
| CTION            | 13. DISPOSAL CONSI                       | DEF | ATIONS  |  |  |  |

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



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|   |  |        | If not otherwise s                                      | pecified: Dispose of as unused product.                           |
| SECTION   | 14. TRANSPORT INFO   | ORM    | ATION   |   |
| Inter   | national Regulations                                       |        |   |   |
| UN r  | T <b>DG</b><br>number<br>er shipping name                  | :      | UN 3077<br>ENVIRONMENT/<br>N.O.S.<br>(Efavirenz)        | ALLY HAZARDOUS SUBSTANCE, SOLID,                                  |
| Class<br>Packing group<br>Labels<br>Environmentally hazardous                                   |  | :      | 9<br>III<br>9<br>yes                                    |   |
| UN/I  | <b>IATA-DGR</b><br>UN/ID No.<br>Proper shipping name       |        | UN 3077<br>Environmentally I<br>(Efavirenz)             | nazardous substance, solid, n.o.s.                                |
| Labe<br>Pack  | king group<br>els<br>king instruction (cargo               | :      | 9<br>III<br>Miscellaneous<br>956                        |   |
| Pack<br>ger a   | aircraft)<br>Packing instruction (passen-<br>ger aircraft) |        | 956   |   |
| Environmentally hazardous<br>IMDG-Code<br>UN number<br>Proper shipping name                     |  | :<br>: | yes<br>UN 3077<br>ENVIRONMENT/<br>N.O.S.<br>(Efavirenz) | ALLY HAZARDOUS SUBSTANCE, SOLID,                                  |
| Class : 9<br>Packing group : III<br>Labels : 9<br>EmS Code : F-A, S-F<br>Marine pollutant : yes |  |        | 9<br>111<br>9<br>F-A, S-F                               |   |

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

Argentina. Carcinogenic Substances and Agents : Not applicable Registry.



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|                      | Control of precursors and essential chemicals for the : Not applicable preparation of drugs. |   |   |  |  |  |  |
| <b>The i</b><br>AICS | • ·  | oduct are reported in<br>: not determined | n the following inventories:                                      |  |  |  |  |
| DSL                  |  | : not determined                          | ł   |  |  |  |  |
| IECS                 | С  | : not determined                          | ł   |  |  |  |  |
| SECTION              | SECTION 16. OTHER INFORMATION  |   |   |  |  |  |  |

| Revision Date | : | 06.07.2024 |
|---------------|---|------------|
| Date format   | : | dd.mm.yyyy |

#### **Further information**

| Sources of key data used to | : | Internal technical data, data from raw material SDSs, OECD |
|-----------------------------|---|--|
| compile the Material Safety |   | eChem Portal search results and European Chemicals Agen-   |
| Data Sheet                  |   | cy, 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.

#### Full text of other abbreviations

| ACGIH<br>AR OEL             | USA. ACGIH Threshold Limit Values (TLV)<br>Argentina. Occupational Exposure Limits |
|-----------------------------|--|
| ACGIH / TWA<br>AR OEL / CMP | 8-hour, time-weighted average<br>TLV (Threshold 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; 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 Substanc-



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es; (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