

| Versio 6.0 | on | Revision Date: 28.09.2024 | | S Number: 5413-00017 | Date of last issue: 29.11.2023 Date of first issue: 21.09.2016 | | |
|--|---------------------------|---------------------------|-------------------------------------|---|---|--|--|
| SECT | SECTION 1. IDENTIFICATION | | | | | | |
| Product identifier | | : | Sodium Selenite | / Vitamin E Injection Formulation | | | |
| С | Other r | neans of identification | : | E-SE Injection (A | A000603) | | |
| N | lanuf | acturer or supplier's o | detai | ils | | | |
| С | Company | | : | MSD | | | |
| Address | | : | Rua Coronel Ber Cruzeiro - Sao P | nto Soares, 530 Paulo - Brazil CEP 12730-340 | | | |
| Т | Telephone | | : | 908-740-4000 | | | |
| E | Emergency telephone | | : | 1-908-423-6000 | | | |
| E | E-mail address | | : | EHSDATASTEWARD@msd.com | | | |
| R | Recommended use of the ch | | | ical and restriction | ons on use | | |
| Recommended use Restrictions on use | | : | Veterinary produ Not applicable | ict | | | |

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 Standard

| Acute toxicity (Oral) | : | Category 4 |
|--|---|------------|
| Acute toxicity (Inhalation) | : | Category 4 |
| Skin irritation | : | Category 3 |
| Skin sensitization | : | Category 1 |
| Specific target organ toxicity - repeated exposure | : | Category 2 |
| Short-term (acute) aquatic hazard | : | Category 3 |
| Long-term (chronic) aquatic hazard | : | Category 3 |

GHS label elements in accordance with ABNT NBR 14725 Standard



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| Haza | rd pictograms | | |
| Signa | al Word | : Warning | |
| Haza | rd Statements | H316 Causes H317 May cau H373 May cau peated exposi | Harmful if swallowed or if inhaled. mild skin irritation. use an allergic skin reaction. use damage to organs through prolonged or re- ure. to aquatic life with long lasting effects. |
| Preca | autionary Statements | P271 Use only P272 Contami the workplace P273 Avoid re | eat, drink or smoke when using this product. / outdoors or in a well-ventilated area. inated work clothing should not be allowed out of lease to the environment. otective gloves. |
| | | CENTER/ doc P302 + P352 P304 + P340 - and keep com doctor if you fe P314 Get med P333 + P313 vice/ attention | lical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical ad- |

Other hazards which do not result in classification None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Substance / Mixture | : | Mixture |
|---------------------|---|---------|
|---------------------|---|---------|

Components

| Chemical name | CAS-No. | Classification | Concentration (% w/w) |
|---------------------------|------------|--|-----------------------|
| (dl)-a-Tocopheryl acetate | 7695-91-2 | | 5,15 |
| Benzyl alcohol | 100-51-6 | Acute Tox. (Oral), 4 Eye Irrit., 2A Skin Sens., 1B | 2,19 |
| Sodium selenite | 10102-18-8 | Acute Tox. (Oral), 1 Acute Tox. (Inhala- tion), 2 | 0,35 -1,13 |



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| | | | Skin Irrit., 2 Eye Irrit., 2A Skin Sens., 1 STOT RE, 1 Aquatic Acute, 1 Aquatic Chronic, 1 | |

SECTION 4. FIRST AID MEASURES

| General advice | : | In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice. |
|---|---|--|
| If inhaled | : | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms occur. |
| In case of skin contact | : | In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. |
| In case of eye contact | : | Flush eyes with water as a precaution. Get medical attention if irritation develops and persists. |
| If swallowed | : | If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | : | Harmful if swallowed or if inhaled. Causes mild skin irritation. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. |
| Protection of first-aiders | : | First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8). |
| Notes to physician | : | Treat symptomatically and supportively. |

SECTION 5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media | : | Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical |
|---------------------------------------|---|---|
| Unsuitable extinguishing media | : | None known. |
| Specific hazards during fire fighting | : | Exposure to combustion products may be a hazard to health. |



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| | Hazarc ucts | lous combustion prod- | : | Carbon oxides | |
| | Specific extinguishing meth- ods | | : | cumstances and t Use water spray t | measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do |
| | | l protective equipment fighters | : | | e, wear self-contained breathing apparatus. tective equipment. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec- tive equipment and emer- gency procedures | | Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8). |
|---|---|---|
| Environmental precautions | : | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. |
| Methods and materials for containment and cleaning up | : | Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. |

SECTION 7. HANDLING AND STORAGE

| Technical measures | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
|-------------------------|---|--|
| Local/Total ventilation | | If sufficient ventilation is unavailable, use with local exhaust ventilation. |
| Advice on safe handling | | Do not get on skin or clothing. Do not breathe mist or vapors. Do not swallow. Avoid contact with eyes. |



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| Hyg | iene measures | Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and practice, based on the results of the workplace exposure assessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release environment. If exposure to chemical is likely during typical use, provi flushing systems and safety showers close to the workir place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review engineering controls, proper personal protective equipm appropriate degowning and decontamination procedure | | | | |
| Conditions for safe storage | | use of administrative controls. Keep in properly labeled containers. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. | | | | |
| Mat | erials to avoid | : Do not store w Strong oxidizin | ith the following product types: g agents ubstances and mixtures | | | |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis | | | | | |
|---------------------------|------------|-------------------------------------|--|----------|--|--|--|--|--|
| (dl)-a-Tocopheryl acetate | 7695-91-2 | TWA | 5000 ug/m3 (OEB 1) | Internal | | | | | |
| Sodium selenite | 10102-18-8 | TWA | 20 µg/m3 (OEB 3) | Internal | | | | | |
| | | Wipe limit | 200 µg/100 cm ² | Internal | | | | | |
| | | TWA | 0,2 mg/m ³ (selenium) | ACGIH | | | | | |

Ingredients with workplace control parameters

Engineering measures : Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds



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| | | | | |
| Perso | onal protective equipm | nent | | |
| Respi | ratory protection | : | exposure assessr | exhaust ventilation is not available or nent demonstrates exposures outside the idelines, use respiratory protection. |
| | ter type protection | : | Combined particu | lates and organic vapor type |
| Ma | aterial | : | Chemical-resistar | nt gloves |
| Eyep | marks rotection | : | If the work environ mists or aerosols, Wear a faceshield potential for direct aerosols. | ses with side shields or goggles. Inment or activity involves dusty conditions, wear the appropriate goggles. If or other full face protection if there is a t contact to the face with dusts, mists, or |
| Skin a | and body protection | : | task being perforr disposable suits) | arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, to avoid exposed skin surfaces. legowning techniques to remove potentially |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical state | : | Aqueous solution |
|---|---|-------------------|
| Color | : | amber |
| 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) | : | Not applicable |
| Flammability (liquids) | : | No data available |
| Upper explosion limit / Upper | : | No data available |



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| | flamma | ability limit | | | |
| | | explosion limit / Lower ability limit | : | No data available |) |
| | Vapor | pressure | : | No data available |) |
| | Relativ | e vapor density | : | No data available |) |
| | Relativ | e density | : | No data available |) |
| | Density | / | : | No data available |) |
| | Solubil Wat | ity(ies) ter solubility | : | No data available |) |
| | Partitio octano | n coefficient: n- | : | Not applicable | |
| | | nition temperature | : | No data available | |
| | Decom | position temperature | : | No data available | |
| | Viscosi Visc | ity cosity, kinematic | : | No data available |) |
| | Explos | ive properties | : | Not explosive | |
| | Oxidizi | ng properties | : | The substance of | r mixture is not classified as oxidizing. |
| | Particle Particle | e characteristics e size | : | Not applicable | |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity | : | Not classified as a reactivity hazard. |
|--------------------------------|---|--|
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reac- | : | Can react with strong oxidizing agents. |
| tions | | |
| Conditions to avoid | : | None known. |
| Incompatible materials | : | Oxidizing agents |
| Hazardous decomposition | : | No hazardous decomposition products are known. |
| products | | |

SECTION 11. TOXICOLOGICAL INFORMATION

| Information on likely routes of | : | |
|---------------------------------|---|--------------|
| exposure | | Skin contact |
| | | Ingestion |
| | | Eye contact |

Acute toxicity

Harmful if swallowed or if inhaled.



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| Produ | ıct: | | | |
| | oral toxicity | : | Acute toxicity esti Method: Calculati | mate: 421,51 mg/kg on method |
| Acute | Acute inhalation toxicity | | Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati | h dust/mist |
| Comp | oonents: | | | |
| (dl)-a- | Tocopheryl acetate: | | | |
| | oral toxicity | : | LD50 (Rat): > 5.0 | 00 mg/kg |
| Acute | dermal toxicity | : | LD50 (Rat): > 3.000 mg/kg Assessment: The substance or mixture has no acute derm toxicity | |
| Benzy | /l alcohol: | | | |
| | oral toxicity | : | LD50 (Rat): 1.200 |) mg/kg |
| Acute | inhalation toxicity | : | LC50 (Rat): > 5,4 Exposure time: 4 Test atmosphere: Method: OECD T Assessment: The tion toxicity | h dust/mist |
| II Sodiu | ım selenite: | | | |
| | oral toxicity | : | LD50 (Rat): 4,8 m | ıg/kg |
| Acute | inhalation toxicity | : | LC50 (Rat): > 0,052 - 0,51 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 | |
| | corrosion/irritation es mild skin irritation. | | | |
| Comp | oonents: | | | |
| (dl)-a- | Tocopheryl acetate: | | | |
| Specie Metho Resul | od | : | Rabbit OECD Test Guide No skin irritation | eline 404 |
| Benzy | /l alcohol: | | | |
| Specie Metho Resul | es od | : | Rabbit OECD Test Guide No skin irritation | eline 404 |



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| Sodiu Speci Metho | | : | reconstructed hu OECD Test Guid | man epidermis (RhE) leline 431 |
| Spec Metho | ies od | : | reconstructed hu OECD Test Guid | man epidermis (RhE) leline 439 |
| Resu | lt | : | Skin irritation | |
| Not c <u>Com</u> | ous eye damage/eye i lassified based on ava ponents: I-Tocopheryl acetate: | ilable | | |
| Spec | | : | Rabbit | |
| Resu Metho | | : | No eye irritation OECD Test Guid | Iolina 405 |
| Meth | ou | • | OECD Test Guid | |
| Benz | yl alcohol: | | | |
| Spec | - | : | Rabbit | |
| Resu | | : | | reversing within 21 days |
| Metho | od | : | OECD Test Guid | leline 405 |
| Sodii | um selenite: | | | |
| Resu | | : | Irritation to eyes, | reversing within 21 days |
| | | | · · | |
| Resp | iratory or skin sensit | izatio | on | |
| Skin | sensitization | | | |
| Mayo | cause an allergic skin r | eacti | on. | |
| - | iratory sensitization lassified based on ava | ilable | information | |
| | ponents: | nabie | | |
| | | | | |
| | -Tocopheryl acetate: | | Desire Test | |
| Test Route | i ype es of exposure | | Draize Test Skin contact | |
| Spec | ies | : | Humans | |
| Resu | | : | negative | |
| Benz | yl alcohol: | | | |
| Test | Tvpe | : | Human repeat in | sult patch test (HRIPT) |
| Route | es of exposure | : | Skin contact | |
| Spec | ies | : | Humans | |
| Resu | n | ÷ | positive | |



| ersion 0 | Revision Date: 28.09.2024 | SDS Number: 895413-00017 | Date of last issue: 29.11.2023 Date of first issue: 21.09.2016 |
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| Asses | ssment | : Probability rate in hum | or evidence of low to moderate skin sensitization nans |
| | um selenite: | | |
| Asses Rema | ssment arks | | or evidence of skin sensitization in humans national or regional regulation. |
| | cell mutagenicity lassified based on ava | ilable information. | |
| Comp | oonents: | | |
| (dl)-a | -Tocopheryl acetate | | |
| Geno | toxicity in vitro | | Chromosome aberration test in vitro ECD Test Guideline 473 gative |
| | | | Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 gative |
| Geno | toxicity in vivo | cytogenetic Species: M | louse Route: Ingestion |
| Benzy | yl alcohol: | | |
| Geno | toxicity in vitro | : Test Type: Result: neg | Bacterial reverse mutation assay (AMES) gative |
| Geno | toxicity in vivo | cytogenetic Species: M | louse Route: Intraperitoneal injection |
| II Sodiu | um selenite: | | |
| Geno | toxicity in vitro | | Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 gative |
| Not cl | nogenicity lassified based on ava <u>conents:</u> | ilable information. | |
| (dl)-a | -Tocopheryl acetate | | |
| Speci Applic | es cation Route | : Rat : Ingestion | |



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|------------------|--|------|---|---|
| Expos Result | sure time t | : | 104 weeks negative | |
| Specie Applic | ation Route sure time od | | Mouse Ingestion 103 weeks OECD Test Gu negative | ideline 451 |
| - | ductive toxicity assified based on availa | able | information. | |
| <u>Comp</u> | onents: | | | |
| | Tocopheryl acetate: s on fertility | : | Test Type: Rep test Species: Rat Application Rou Result: negative | |
| Effects | s on fetal development | : | Test Type: Eml Species: Rabbi Application Rou Result: negative | ite: Ingestion |
| Benzy | /l alcohol: | | | |
| | s on fertility | : | Species: Rat Application Rou Result: negative | |
| Effects | s on fetal development | : | Test Type: Emb Species: Mouse Application Rou Result: negative | ite: Ingestion |
| Sodiu | m selenite: | | | |
| Effects | s on fertility | : | Species: Rat Application Rou Result: negative | |
| Effects | s on fetal development | : | Test Type: Eml Species: Mouse Application Rou Result: negative | ite: Ingestion |



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| | F-single exposure lassified based on avai | lable | information. | |
| STOT | F -repeated exposure | | | |
| | cause damage to organ | ns thr | ough prolonged or | repeated exposure. |
| Com | ponents: | | | |
| Sodiu | um selenite: | | | |
| | es of exposure ssment | : | Ingestion Shown to produce centrations of 10 | e significant health effects in animals at con- mg/kg bw or less. |
| Repe | ated dose toxicity | | | |
| Com | ponents: | | | |
| (dl)-a | -Tocopheryl acetate: | | | |
| Speci | | : | Rat | |
| NOA Applio | ⊏∟ cation Route | | 500 mg/kg Ingestion | |
| | sure time | : | 90 Days | |
| Benz | yl alcohol: | | | |
| Speci | | : | Rat | |
| NOA | EL cation Route | : | 1,072 mg/l inhalation (dust/m | ist/fume) |
| Expo | sure time | : | 28 Days | |
| Metho | od | : | OECD Test Guide | eline 412 |
| Sodiu | um selenite: | | | |
| Speci NOAI | | : | Rat | |
| | ⊏∟ cation Route | : | 0,88 mg/kg Ingestion | |
| Expo | sure time | : | 13 Weeks | |
| Aspir | ration toxicity | | | |
| Not c | lassified based on avai | lable | information. | |
| Expe | rience with human ex | posi | ıre | |
| Com | ponents: | | | |
| Sodiu | um selenite: | | | |
| Inhala | ation | : | Symptoms: Lowe Target Organs: D | on, Edema ardio-vascular system red blood pressure |
| Inges | tion | : | Target Organs: N Symptoms: Neuro | ervous system |



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| | | | Target Organs: H Symptoms: hair lo Target Organs: S Symptoms: Rash, Target Organs: E | oss kin Skin disorders |
| SECTI | ON 12. ECOLOGICAL INFO | ORN | IATION | |
| E | cotoxicity | | | |
| <u>C</u> | omponents: | | | |
| | II)-a-Tocopheryl acetate: oxicity to fish | : | LC50 (Oncorhync Exposure time: 96 Method: OECD Te | |
| | oxicity to daphnia and other quatic invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: OECD Te | |
| | oxicity to algae/aquatic ants | : | ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD To | |
| | | | NOEC (Pseudokin 100 mg/l Exposure time: 72 Method: OECD Te | |
| | oxicity to fish (Chronic tox- ity) | : | NOEC (Oncorhyn Exposure time: 28 | chus mykiss (rainbow trout)): 100 mg/l 3 d |
| Т | oxicity to microorganisms | : | EC50: > 927 mg/l Exposure time: 30 Method: ISO 8192 | |
| B | enzyl alcohol: | | | |
| Т | oxicity to fish | : | LC50 (Pimephale Exposure time: 96 | s promelas (fathead minnow)): 460 mg/l S h |
| | oxicity to daphnia and other quatic invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: OECD Te | |
| | oxicity to algae/aquatic ants | : | EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te | |
| | | | NOEC (Pseudokii mg/l | chneriella subcapitata (green algae)): 310 |



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| | | | Exposure time: 72 Method: OECD Te | |
| | y to daphnia and other invertebrates (Chron- ity) | : | NOEC (Daphnia n Exposure time: 21 Method: OECD Te | |
| Sodiur | n selenite: | | | |
| Toxicity | y to fish | : | Exposure time: 96 | s promelas (fathead minnow)): > 1 - 10 mg/l 5 h on data from similar materials |
| | y to daphnia and other invertebrates | : | EC50 (Daphnia m Exposure time: 48 | agna (Water flea)): 1,2 mg/l s h |
| Toxicity plants | y to algae/aquatic | : | mg/l Exposure time: 96 | monas reinhardtii (green algae)): > 0,1 - 1 i h on data from similar materials |
| | | | mg/l Exposure time: 96 | monas reinhardtii (green algae)): > 0,1 - 1 5 h on data from similar materials |
| M-Fact icity) | or (Acute aquatic tox- | : | 1 | |
| | y to fish (Chronic tox- | : | NOEC (Lepomis n Exposure time: 25 | nacrochirus (Bluegill sunfish)): 0,022 mg/l i8 d |
| | y to daphnia and other invertebrates (Chron- | : | NOEC: 0,096 mg/ Exposure time: 28 | |
| M-Fact | or (Chronic aquatic | : | 1 | |
| toxicity Toxicity |) / to microorganisms | : | EC50 (activated s Exposure time: 3 I Method: OECD Te | n |
| II Persist | tence and degradabili | ty | | |
| | onents: | - | | |
| (dl)-a-T | Cocopheryl acetate: | | | |
| | radability | : | Result: Not readily Biodegradation: 2 Exposure time: 28 Method: OECD Te | 21,7 - 31 % |
| Benzyl | alcohol: | | | |
| | radability | : | Result: Readily bio Biodegradation: 9 | |



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| | | Exposure time | e: 14 d | | |
| Bioaco | Bioaccumulative potential | | | | |
| Comp | onents: | | | | |
| • | r l alcohol: on coefficient: n- ol/water | : log Pow: 1,05 | | | |
| | ty in soil a available | | | | |
| | adverse effects a available | | | | |
| SECTION 13. DISPOSAL CONSIDERATIONS | | | | | |

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

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

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

ANTT

Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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

National List of Carcinogenic Agents for Humans - : Not applicable



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| (LINA | (LINACH) | | | | | |
| | Brazil. List of chemicals controlled by the Federal : Not applicable Police | | | | | |
| The ingredients of this product are reported in the following inventories: AICS : not determined | | | | | | |
| DSL | | : not determined | | | | |
| IECS | С | : not determined | | | | |
| | | | | | | |

SECTION 16. OTHER INFORMATION

| Revision Date | : | 28.09.2024 |
|---------------|---|------------|
| Date format | : | dd.mm.yyyy |

Further information

| Sources of key data used to compile the Material Safety | : | Internal technical data, data from raw material SDSs, OECD 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.

: 8-hour, time-weighted average

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA

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, Bioaccumu-



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lative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless 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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