

| Vers<br>3.3 | ion       | Revision Date:<br>28.09.2024 |       | S Number:<br>0480-00011               |                 | sue: 06.04.2024<br>sue: 20.09.2019 |
|-------------|-----------|------------------------------|-------|---------------------------------------|-----------------|------------------------------------|
|             |           |                              |       |                                       |                 |                                    |
| Sect        | tion 1: I | dentification                |       |                                       |                 |                                    |
|             | Product   | name                         | :     | Iron Dextran / Nie                    | cotinamide Forn | nulation                           |
|             | Manufa    | ecturer or supplier's c      | letai | ls                                    |                 |                                    |
|             | Company   |                              | :     | : MSD                                 |                 |                                    |
|             | Address   | 5                            | :     | 33 Whakatiki Stro<br>Upper Hutt - New |                 | g 908                              |
|             | Telepho   | one                          | :     | 0800 800 543                          |                 |                                    |
|             | Emerge    | ency telephone number        | r:    | 0800 764 766 (08<br>CHEMCALL)         | 800 POISON)     | 0800 243 622 (0800                 |
|             | E-mail a  | address                      | :     | EHSDATASTEW                           | /ARD@msd.cor    | n                                  |
|             | Recom     | mended use of the cl         | nem   | ical and restriction                  | ons on use      |                                    |
|             |           | mended use<br>ions on use    | :     | Veterinary produ<br>Not applicable    | ct              |                                    |

#### Section 2: Hazard identification

### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

#### **Additional Labelling**

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 2.87 %

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

None known.

#### Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

#### Components

| Chemical name      | CAS-No.    | Concentration (% w/w) |
|--------------------|------------|-----------------------|
| Aluminum hydroxide | 21645-51-2 | >= 10 -< 20           |
| Iron dextran       | 9004-66-4  | >= 1 -< 10            |
| nicotinamide       | 98-92-0    | >= 1 -< 10            |



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| Section 4: First-aid measures                                     |   |   |
|---|---|---|
| If inhaled  | : | If inhaled, remove to fresh air.<br>Get medical attention if symptoms occur.  |
| In case of skin contact   | : | Wash with water and soap as a precaution.<br>Get medical attention if symptoms occur.   |
| In case of eye contact  | : | Flush eyes with water as a precaution.<br>Get medical attention if irritation develops and persists.  |
| 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<br>delayed | : | None known.   |
| Protection of first-aiders<br>Notes to physician                  | : | No special precautions are necessary for first aid responders.<br>Treat symptomatically and supportively.   |
| Section 5: Fire-fighting measure                                  | s |   |
| Suitable extinguishing media                                      | : | Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO2)<br>Dry chemical   |
| Unsuitable extinguishing media                                    | : | None known.   |
| Specific hazards during fire-<br>fighting                         | : | Exposure to combustion products may be a hazard to health.  |
| Hazardous combustion prod-<br>ucts                                | : | Metal oxides<br>Carbon oxides<br>Nitrogen oxides (NOx)<br>Chlorine compounds  |
| Specific extinguishing meth-<br>ods                               | : | Use extinguishing measures that are appropriate to local cir-<br>cumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do<br>so.<br>Evacuate area. |
| Special protective equipment for firefighters                     | : | Wear self-contained breathing apparatus for firefighting if nec-<br>essary.<br>Use personal protective equipment.   |

### Section 6: Accidental release measures

| Personal precautions, protec- : | Follow safe handling advice (see section 7) and personal pro- |
|---------------------------------|---|
| tive equipment and emer-        | tective equipment recommendations (see section 8).            |



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| gency  | procedures                   |  |  |  |  |  |
| Environmental precautions                              |                              | Prevent<br>Prevent<br>barriers<br>Retain a<br>Local a  | Avoid release to the environment.<br>Prevent further leakage or spillage if safe to do so.<br>Prevent spreading over a wide area (e.g. by containment or oil<br>barriers).<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  |                              | For larg<br>ment to<br>be pum<br>Clean u<br>bent.<br>Local of<br>employe<br>mine wi<br>Section | Soak up with inert absorbent material.<br>For large spills, provide dyking or other appropriate contain-<br>ment to keep material from spreading. If dyked material can<br>be pumped, store recovered material in appropriate container<br>Clean up remaining materials from spill with suitable absor-<br>bent.<br>Local or national regulations may apply to releases and dis-<br>posal of this material, as well as those materials and items<br>employed in the cleanup of releases. You will need to deter-<br>mine which regulations are applicable.<br>Sections 13 and 15 of this SDS provide information regardin<br>certain local or national requirements. |  |  |  |
| Section 7:   | Handling and storage         |  |  |  |  |  |
|  | ical measures                | CONTR  | gineering measures under EXPOSURE<br>ROLS/PERSONAL PROTECTION section.   |  |  |  |
| Local/Total ventilation :<br>Advice on safe handling : |                              | : Handle   | Use only with adequate ventilation.<br>Handle in accordance with good industrial hygiene and safety<br>practice, based on the results of the workplace exposure as-  |  |  |  |

| Hygiene measures | : |
|------------------|---|

| Hygiene measures            | environment.<br>If exposure to chemical is likely during typical use, provide eye              |
|-----------------------------|--|
| nygiene measures            | flushing systems and safety showers close to the working place.                                |
|                             | When using do not eat, drink or smoke.   |
|                             | Wash contaminated clothing before re-use.  |
|                             | The effective operation of a facility should include review of                                 |
|                             | engineering controls, proper personal protective equipment,                                    |
|                             | appropriate degowning and decontamination procedures,  |
|                             | industrial hygiene monitoring, medical surveillance and the<br>use of administrative controls. |
| Conditions for safe storage | : Keep in properly labelled containers.  |
|                             | Store in accordance with the particular national regulations.                                  |
| Materials to avoid          | : Do not store with the following product types:<br>Strong oxidizing agents                    |

Take care to prevent spills, waste and minimize release to the

sessment



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#### Section 8: Exposure controls/personal protection

### Components with workplace control parameters

| Components         | CAS-No.    | Value type<br>(Form of<br>exposure)                | Control parame-<br>ters / Permissible<br>concentration | Basis  |
|--------------------|------------|--|--|--------|
| Aluminum hydroxide | 21645-51-2 | WES-TWA<br>(Respirable<br>dust)                    | 1 mg/m3<br>(Aluminium)                                 | NZ OEL |
|                    |            | TWA (Res-<br>pirable par-<br>ticulate mat-<br>ter) | 1 mg/m3<br>(Aluminium)                                 | ACGIH  |

| Engineering measures :                             | Use appropriate engineering controls and manufacturing<br>technologies to control airborne concentrations (e.g., drip-<br>less quick connections).<br>All engineering controls should be implemented by facility<br>design and operated in accordance with GMP principles to<br>protect products, workers, and the environment.<br>Containment technologies suitable for controlling compounds<br>are required to control at source and to prevent migration of<br>the compound to uncontrolled areas (e.g., open-face con-<br>tainment devices).<br>Minimize open handling. |
|--|--|
| Personal protective equipment                      | t  |
| Respiratory protection:Filter type:Hand protection | If adequate local exhaust ventilation is not available or expo-<br>sure assessment demonstrates exposures outside the rec-<br>ommended guidelines, use respiratory protection.<br>Combined particulates and organic vapour type  |
| Material :   | Chemical-resistant gloves  |
| Remarks :<br>Eye protection :                      | Consider double gloving.<br>Wear safety glasses with side shields or goggles.<br>If the work environment or activity involves dusty conditions,<br>mists or aerosols, wear the appropriate goggles.<br>Wear a faceshield or other full face protection if there is a<br>potential for direct contact to the face with dusts, mists, or<br>aerosols.  |
| Skin and body protection :                         | Work uniform or laboratory coat.<br>Additional body garments should be used based upon the<br>task being performed (e.g., sleevelets, apron, gauntlets, dis-<br>posable suits) to avoid exposed skin surfaces.<br>Use appropriate degowning techniques to remove potentially<br>contaminated clothing.   |

### Section 9: Physical and chemical properties



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|            |                     |   |   |                         |   |
|            |                     |   |   |                         |   |
|            | Appear              | ance                                    | : | suspension              |   |
|            | Colour              |   | : | dark brown              |   |
|            | Odour               |   | : | characteristic          |   |
|            | Odour               | Threshold                               | : | No data available       |   |
|            | рН                  |   | : | No data available       | )   |
|            | Melting             | point/freezing point                    | : | -1.0 °C                 |   |
|            | Initial b<br>range  | oiling point and boiling                | : | 98.5 °C                 |   |
|            | Flash p             | point                                   | : | No data available       | )   |
|            | Evapor              | ation rate                              | : | No data available       |   |
|            | Flamma              | ability (solid, gas)                    | : | Not applicable          |   |
|            | Flamma              | ability (liquids)                       | : | No data available       | )   |
|            |                     | explosion limit / Upper<br>bility limit | : | No data available       |   |
|            |                     | explosion limit / Lower<br>bility limit | : | No data available       |   |
|            | Vapour              | pressure                                | : | No data available       | )   |
|            | Relative            | e vapour density                        | : | 0.9950 - 1.1500         |   |
|            | Relative            | e density                               | : | No data available       | )   |
|            | Density             | /                                       | : | No data available       | )   |
|            | Solubili<br>Wat     | ity(ies)<br>er solubility               | : | No data available       | )   |
|            | Partitio<br>octanol | n coefficient: n-                       | : | Not applicable          |   |
|            |                     | nition temperature                      | : | No data available       | )   |
|            | Decom               | position temperature                    | : | No data available       | )   |
|            | Viscosi<br>Visc     | ty<br>cosity, kinematic                 | : | No data available       |   |
|            | Explosi             | ve properties                           | : | Not explosive           |   |



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|   |  |                  |   |   |  |
| Oxidi   | zing properties  | :                | The substance c   | r mixture is not classified as oxidizing.   |  |
| Molecular weight  |  | :                | No data available   |   |  |
| Particle characteristics<br>Particle size               |  | :                | Not applicable  |   |  |
| ection 1  | 0: Stability and reactive  | vity             |   |   |  |
| Possi<br>tions<br>Cond<br>Incon                         | nical stability<br>ibility of hazardous read<br>itions to avoid<br>npatible materials<br>rdous decomposition               | :<br>;<br>;<br>; | Stable under not<br>Can react with s<br>None known.<br>Oxidizing agents   | trong oxidizing agents.   |  |
| ection 1  | 1: Toxicological inform  | matio            | n   |   |  |
|   |  |                  |   |   |  |
| Expo  | sure routes  |                  | Inhalation<br>Skin contact<br>Ingestion<br>Eye contact  |   |  |
| Acute   | sure routes<br><b>e toxicity</b><br>lassified based on avail   |                  | Skin contact<br>Ingestion<br>Eye contact  |   |  |
| Acute   | <b>e toxicity</b><br>lassified based on avail  |                  | Skin contact<br>Ingestion<br>Eye contact  |   |  |
| <b>Acut</b> e<br>Not c<br><u>Prod</u>                   | <b>e toxicity</b><br>lassified based on avail  | lable ir         | Skin contact<br>Ingestion<br>Eye contact<br>nformation.   | imate: > 2,000 mg/kg<br>ion method  |  |
| Acute<br>Not c<br><u>Prod</u><br>Acute                  | <b>e toxicity</b><br>lassified based on avail<br><u>uct:</u>   | lable ir         | Skin contact<br>Ingestion<br>Eye contact<br>nformation.<br>Acute toxicity est   |   |  |
| Acute<br>Not c<br><u>Prod</u><br>Acute                  | <b>e toxicity</b><br>lassified based on avail<br><u>uct:</u><br>e oral toxicity  | lable ir         | Skin contact<br>Ingestion<br>Eye contact<br>nformation.<br>Acute toxicity est   |   |  |
| Acute<br>Not c<br><u>Prod</u><br>Acute                  | e toxicity<br>lassified based on avail<br><u>uct:</u><br>e oral toxicity<br>ponents:                                       | lable ir         | Skin contact<br>Ingestion<br>Eye contact<br>nformation.<br>Acute toxicity est<br>Method: Calculat<br>LD50 (Rat): > 2,0<br>Method: OECD T  | ion method  |  |
| Acute<br>Not c<br>Prod<br>Acute                         | e toxicity<br>lassified based on avail<br><u>uct:</u><br>e oral toxicity<br>ponents:<br>inum hydroxide:                    | lable ir<br>:    | Skin contact<br>Ingestion<br>Eye contact<br>Information.<br>Acute toxicity est<br>Method: Calculat<br>LD50 (Rat): > 2,0<br>Method: OECD T<br>Assessment: The<br>icity<br>LC50 (Rat): > 5.0<br>Exposure time: 4<br>Test atmosphere<br>Assessment: The<br>tion toxicity | ion method<br>00 mg/kg<br>est Guideline 423<br>substance or mixture has no acute oral tox-<br>9 mg/l<br>h   |  |
| Acute<br>Not c<br>Prod<br>Acute<br>Com<br>Alum<br>Acute | e toxicity<br>lassified based on avail<br><u>uct:</u><br>e oral toxicity<br>ponents:<br>inum hydroxide:<br>e oral toxicity | lable ir<br>:    | Skin contact<br>Ingestion<br>Eye contact<br>Information.<br>Acute toxicity est<br>Method: Calculat<br>LD50 (Rat): > 2,0<br>Method: OECD T<br>Assessment: The<br>icity<br>LC50 (Rat): > 5.0<br>Exposure time: 4<br>Test atmosphere<br>Assessment: The<br>tion toxicity | ion method<br>00 mg/kg<br>est Guideline 423<br>substance or mixture has no acute oral tox-<br>9 mg/l<br>h<br>: dust/mist<br>substance or mixture has no acute inhala- |  |



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|   |   |   |  |  |  |
| . ,   |   |   |  |  |  |
|   | inamide:  |   |  |  |  |
| Acute   | oral toxicity   | Method:   | at): > 2,500 mg/kg<br>OECD Test Guideline 423<br>ent: The substance or mixture has no acute oral to  |  |  |
| Acute inhalation toxicity   |   | Exposure<br>Test atm<br>Method:<br>Assessm<br>tion toxic  | LC50 (Rat): > 3.8 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 436<br>Assessment: The substance or mixture has no acute inhala-<br>tion toxicity<br>Remarks: Based on data from similar materials |  |  |
| Acute dermal toxicity   |   | Method:   | LD50 (Rabbit): > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The substance or mixture has no acute dermal<br>toxicity  |  |  |
| Skin  | corrosion/irritation  |   |  |  |  |
| -   | lassified based on ava  | vilable informatio  | n  |  |  |
|   | oonents:  |   |  |  |  |
| -   | inum hydroxide:   |   |  |  |  |
| Speci   | -   | : Rabbit  |  |  |  |
| Metho<br>Resu   | bd  |   | est Guideline 404<br>rritation   |  |  |
| Resu  | od<br>It  | : OECD Te   |  |  |  |
| Resul<br>nicot  | od<br>It<br><b>inamide:</b>   | : OECD Te<br>: No skin ii   |  |  |  |
| Resu  | od<br>lt<br><b>inamide:</b><br>ies  | : OECD Te<br>: No skin in<br>: Rabbit   |  |  |  |
| Resul<br>nicot<br>Speci   | od<br>lt<br><b>inamide:</b><br>les<br>od  | : OECD Te<br>: No skin in<br>: Rabbit   | ritation<br>est Guideline 404  |  |  |
| Resul<br>nicot<br>Speci<br>Metho<br>Resul   | od<br>lt<br><b>inamide:</b><br>les<br>od  | : OECD Te<br>: No skin in<br>: Rabbit<br>: OECD Te<br>: No skin in  | ritation<br>est Guideline 404  |  |  |
| Resul<br>nicot<br>Speci<br>Metho<br>Resul   | od<br>It<br><b>inamide:</b><br>ies<br>od<br>It  | : OECD Te<br>: No skin in<br>: Rabbit<br>: OECD Te<br>: No skin in  | ritation<br>est Guideline 404<br>ritation  |  |  |
| Resul<br>nicot<br>Speci<br>Metho<br>Resul<br>Serio<br>Not cl  | od<br>It<br><b>inamide:</b><br>es<br>od<br>It<br>u <b>s eye damage/eye</b>  | : OECD Te<br>: No skin in<br>: Rabbit<br>: OECD Te<br>: No skin in  | ritation<br>est Guideline 404<br>ritation  |  |  |
| Resul<br>nicot<br>Speci<br>Metho<br>Resul<br>Serio<br>Not cl<br><u>Com</u>  | od<br>It<br><b>inamide:</b><br>ies<br>od<br>It<br><b>us eye damage/eye</b> i<br>lassified based on ava  | : OECD Te<br>: No skin in<br>: Rabbit<br>: OECD Te<br>: No skin in  | ritation<br>est Guideline 404<br>ritation  |  |  |
| Result<br>nicot<br>Speci<br>Metho<br>Result<br>Serio<br>Not cl<br><u>Comp</u><br>Alum<br>Speci                      | od<br>It<br>inamide:<br>ies<br>od<br>It<br>us eye damage/eye<br>it<br>us eye damage/eye<br>iassified based on ava<br><u>ponents:</u><br>inum hydroxide:<br>ies        | : OECD Te<br>: No skin in<br>: Rabbit<br>: OECD Te<br>: No skin in<br>inritation<br>ilable informatio<br>: Rabbit   | rritation<br>est Guideline 404<br>rritation<br>n.  |  |  |
| Result<br>nicot<br>Speci<br>Metho<br>Result<br>Serio<br>Not cl<br><u>Comp</u>                                       | od<br>It<br><b>inamide:</b><br>Ies<br>od<br>It<br><b>us eye damage/eye</b><br>I<br>assified based on ava<br><u>ponents:</u><br><b>inum hydroxide:</b><br>Ies<br>It    | : OECD Te<br>: No skin in<br>: Rabbit<br>: OECD Te<br>: No skin in<br>intation<br>ilable informatio<br>: Rabbit<br>: No eye ir  | rritation<br>est Guideline 404<br>rritation<br>n.  |  |  |
| Result<br>nicot<br>Speci<br>Metho<br>Result<br>Serio<br>Not cl<br><u>Comp</u><br>Alum<br>Speci<br>Result<br>Metho   | od<br>It<br><b>inamide:</b><br>Ies<br>od<br>It<br><b>us eye damage/eye</b><br>I<br>assified based on ava<br><u>ponents:</u><br><b>inum hydroxide:</b><br>Ies<br>It    | : OECD Te<br>: No skin in<br>: Rabbit<br>: OECD Te<br>: No skin in<br>intation<br>ilable informatio<br>: Rabbit<br>: No eye ir  | ritation<br>est Guideline 404<br>rritation<br>n.   |  |  |
| Result<br>nicot<br>Speci<br>Metho<br>Result<br>Serio<br>Not cl<br><u>Comp</u><br>Alum<br>Speci<br>Result<br>Metho   | inamide:<br>inamide:<br>ies<br>od<br>it<br>ius eye damage/eye<br>ilassified based on ava<br><u>ponents:</u><br>inum hydroxide:<br>ies<br>it<br>od                     | : OECD Te<br>: No skin in<br>: Rabbit<br>: OECD Te<br>: No skin in<br>intation<br>ilable informatio<br>: Rabbit<br>: No eye in  | ritation<br>est Guideline 404<br>rritation<br>n.   |  |  |
| Result<br>nicot<br>Speci<br>Metho<br>Result<br>Serio<br>Not cl<br>Comp<br>Alum<br>Speci<br>Result<br>Metho<br>nicot | od<br>It<br>inamide:<br>es<br>od<br>It<br>us eye damage/eye<br>iassified based on ava<br><u>oonents:</u><br>inum hydroxide:<br>es<br>It<br>od<br>inamide:<br>es<br>It | : OECD Te<br>: No skin in<br>: Rabbit<br>: OECD Te<br>: No skin in<br>irritation<br>ilable informatio<br>: Rabbit<br>: OECD Te<br>: OECD Te<br>: Rabbit<br>: Irritation | ritation<br>est Guideline 404<br>rritation<br>n.   |  |  |



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### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Components:**

#### Aluminum hydroxide:

| Test Type       | Maximisation Test       |
|-----------------|-------------------------|
| Exposure routes | Skin contact            |
| Species         | Guinea pig              |
| Method          | OECD Test Guideline 406 |
| Result          | negative                |

#### nicotinamide:

| Test Type       | : | Maximisation Test       |
|-----------------|---|-------------------------|
| Exposure routes | : | Skin contact            |
| Species         | : | Guinea pig              |
| Method          | : | OECD Test Guideline 406 |
| Result          | : | negative                |

#### **Chronic toxicity**

#### Germ cell mutagenicity

Not classified based on available information.

#### **Components:**

#### Aluminum hydroxide:

| Genotoxicity in vitro : | Test Type: In vitro mammalian cell gene mutation test<br>Method: OECD Test Guideline 476<br>Result: negative   |
|-------------------------|--|
|                         | Test Type: Chromosome aberration test in vitro<br>Result: positive<br>Remarks: Based on data from similar materials  |
|                         | Test Type: DNA damage and repair, unscheduled DNA syn-<br>thesis in mammalian cells (in vitro)<br>Result: equivocal<br>Remarks: Based on data from similar materials |
|                         | Test Type: in vitro micronucleus test<br>Result: positive<br>Remarks: Based on data from similar materials   |
| Genotoxicity in vivo :  | Test Type: Mammalian erythrocyte micronucleus test (in vivo<br>cytogenetic assay)<br>Species: Rat  |
|                         |  |



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|                       |  |          |  |   |  |
|                       |  |          | Application Rou<br>Method: OECD<br>Result: negative  | Test Guideline 474  |  |
| nicot                 | inamide:                                       |          |  |   |  |
| Genotoxicity in vitro |  |          |  | erial reverse mutation assay (AMES)<br>Test Guideline 471<br>e  |  |
| Genotoxicity in vivo  |  |          | Test Type: Mammalian erythrocyte micronucleus test (in vivo<br>cytogenetic assay)<br>Species: Mouse<br>Application Route: Intraperitoneal injection<br>Method: OECD Test Guideline 474<br>Result: negative |   |  |
|                       | i <b>nogenicity</b><br>lassified based on avai | lable ir | nformation.  |   |  |
| <u>Com</u>            | ponents:                                       |          |  |   |  |
| Alum                  | inum hydroxide:                                |          |  |   |  |
|                       | cation Route<br>sure time<br>It                | :        | Rat<br>inhalation (dust/<br>86 weeks<br>negative<br>Based on data f  | /mist/fume)<br>from similar materials   |  |
| -                     | oductive toxicity<br>lassified based on avai   | lable ir | nformation.  |   |  |
| Com                   | ponents:                                       |          |  |   |  |
| Alum                  | inum hydroxide:                                |          |  |   |  |
| Effect                | ts on fertility                                |          |  | bined repeated dose toxicity study with the   |  |
|                       |  |          | Species: Rat<br>Application Rou<br>Method: OECD<br>Result: negative  | Test Guideline 422  |  |
| Effect<br>ment        | ts on foetal develop-                          | :        | Species: Rat<br>Application Rou<br>Method: OECD<br>Result: negative<br>Remarks: Base   | te: Ingestion<br>Test Guideline 422<br>d on data from similar materials<br>pryo-foetal development<br>te: Ingestion |  |
| ment                  | ts on foetal develop-<br>inamide:              | :        | Species: Rat<br>Application Rou<br>Method: OECD<br>Result: negative<br>Remarks: Base<br>Test Type: Emb<br>Species: Rat<br>Application Rou  | te: Ingestion<br>Test Guideline 422<br>d on data from similar materials<br>pryo-foetal development<br>te: Ingestion |  |



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|----------------------------|--|---------------------------------------|--|---|
|                            |  |                                       |  |   |
|                            |  |                                       | Application Route<br>Method: OECD Te<br>Result: negative |   |
|                            | <b>TOT - single exposure</b><br>lot classified based on availal  | ble                                   | information.   |   |
|                            | TOT - repeated exposure  |                                       |  |   |
|                            | lot classified based on availal  | ble                                   | information.   |   |
|                            | Repeated dose toxicity   |                                       |  |   |
| <u>c</u>                   | components:  |                                       |  |   |
| SNAENF SNAEF <b>n</b> SNAE | Aluminum hydroxide:<br>Species<br>IOAEL<br>Application Route<br>Exposure time<br>Aethod<br>Remarks<br>Species<br>IOAEL<br>Application Route<br>Exposure time<br>Remarks<br>Species<br>IOAEL<br>Application Route<br>Exposure time<br>Attribute<br>Species<br>IOAEL<br>Application Route<br>Exposure time<br>Attribute<br>Exposure time<br>Attribute<br>IOAEL<br>Application Route<br>Exposure time<br>Attribute<br>IOAEL | · · · · · · · · · · · · · · · · · · · | Rat<br>> 0.2 mg/kg<br>inhalation (dust/m<br>12 Months    | m similar materials<br>ist/fume)<br>m similar materials           |
|                            | spiration toxicity   |                                       |  |   |
|                            | lot classified based on availal  |                                       | information.   |   |
| Section                    | on 12: Ecological information  | on                                    |  |   |
| E                          | cotoxicity   |                                       |  |   |
| <u>c</u>                   | components:  |                                       |  |   |
| A                          | luminum hydroxide:   |                                       |  |   |
| Т                          | oxicity to fish  | :                                     | LL50 (Salmo trutta<br>Exposure time: 96                  | a (brown trout)): > 100 mg/l<br>i h                               |
|                            | oxicity to daphnia and other quatic invertebrates  | :                                     | EL50 (Daphnia ma<br>Exposure time: 48                    | agna (Water flea)): > 100 mg/l<br>h                               |



| rsion<br>3  | Revision Date: 28.09.2024                          | -   | 0S Number:<br>10480-00011  | Date of last issue: 06.04.2024<br>Date of first issue: 20.09.2019      |  |
|---|--|-----|--|--|--|
| Toxici<br>plants                                    | ty to algae/aquatic                                | :   | EL50 (Selenastru<br>Exposure time: 96  | m capricornutum (green algae)): > 100 mg/l<br>6 h                      |  |
| Iron d  | lextran:   |     |  |  |  |
|   | oxicology Assessment<br>aquatic toxicity           | :   | Toxic effects can  | not be excluded  |  |
| Chron   | nic aquatic toxicity                               | :   | Toxic effects can  | not be excluded  |  |
| nicotinamide:<br>Toxicity to fish                   |  | :   | LC50 (Poecilia reticulata (guppy)): > 1,000 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203 |  |  |
| Toxicity to daphnia and other aquatic invertebrates |  | :   | EC50 (Daphnia magna (Water flea)): > 1,000 mg/l<br>Exposure time: 24 h<br>Method: OECD Test Guideline 202  |  |  |
| Toxici<br>plants                                    | ty to algae/aquatic                                | :   | EC50 (Desmodes<br>mg/l<br>Exposure time: 72<br>Method: OECD T  |  |  |
|   |  |     | Exposure time: 72  | esmus subspicatus (green algae)): 560 mg/l<br>2 h<br>est Guideline 201 |  |
| Toxici  | ty to microorganisms                               | :   | NOEC (Pseudomonas putida): 4,235 mg/l<br>Exposure time: 18 h<br>Method: OECD Test Guideline 209            |  |  |
| Persi   | stence and degradabil                              | ity |  |  |  |
| Comp  | oonents:   |     |  |  |  |
|   | i <b>namide:</b><br>gradability                    | :   | Result: Readily bi<br>Biodegradation: 9<br>Exposure time: 28<br>Method: OECD T                             | 95 %   |  |
| Bioac   | cumulative potential                               |     |  |  |  |
| <u>Comp</u>   | oonents:   |     |  |  |  |
| Partiti   | i <b>namide:</b><br>on coefficient: n-<br>ol/water | :   | log Pow: -0.38   |  |  |



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|----------------|---------------------------|--------------------------------------|--|
|                |                           |                                      |  |
|                | lity in soil              |                                      |  |
| NO da          | ata available             |                                      |  |
| Othe           | r adverse effects         |                                      |  |
| No da          | ata available             |                                      |  |
| Section 1      | 3: Disposal considera     | ations                               |  |
| Dispo          | osal methods              |                                      |  |
| Wast           | e from residues           | •                                    | e of waste into sewer.<br>accordance with local regulations.   |
| Conta          | aminated packaging        | : Empty contain<br>dling site for re | ers should be taken to an approved waste han-<br>ecycling or disposal.<br>e specified: Dispose of as unused product. |

### Section 14: Transport information

### International Regulations

| UNRTDG<br>UN number<br>Proper shipping name<br>Class<br>Subsidiary risk<br>Packing group<br>Labels<br>Environmentally hazardous  | Not applicable<br>Not applicable<br>Not applicable<br>Not applicable<br>Not applicable<br>Not applicable<br>no                               |
|--|--|
| IATA-DGR<br>UN/ID No.<br>Proper shipping name<br>Class<br>Subsidiary risk<br>Packing group<br>Labels<br>Packing instruction (cargo<br>aircraft)<br>Packing instruction (passen-<br>ger aircraft) | Not applicable<br>Not applicable<br>Not applicable<br>Not applicable<br>Not applicable<br>Not applicable<br>Not applicable                   |
| IMDG-Code<br>UN number<br>Proper shipping name<br>Class<br>Subsidiary risk<br>Packing group<br>Labels<br>EmS Code<br>Marine pollutant  | Not applicable<br>Not applicable<br>Not applicable<br>Not applicable<br>Not applicable<br>Not applicable<br>Not applicable<br>Not applicable |

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

Not applicable for product as supplied.



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|                |                           |                              |   |
| Natio          | nal Regulations           |                              |   |
| UN r           | 5433<br>number            | : Not applicable             |   |

|                      | . Not applicable |
|----------------------|------------------|
| Proper shipping name | : Not applicable |
| Class                | : Not applicable |
| Subsidiary risk      | : Not applicable |
| Packing group        | : Not applicable |
| Labels               | : Not applicable |
| Hazchem Code         | : Not applicable |
|                      |                  |

#### Special precautions for user

Not applicable

#### Section 15: Regulatory information

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

#### **HSNO Approval Number**

Not applicable

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

#### **HSW Controls**

Certified handler certificate not required.

Tracking hazardous substance not required.

Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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

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

### Section 16: Other information

| Revision Date   | : | 28.09.2024   |  |
|---|---|--|--|
| Further information   |   |  |  |
| Sources of key data used to<br>compile the Safety Data<br>Sheet | : | Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/ |  |
| Date format   | : | dd.mm.yyyy   |  |
| Full text of other abbreviations                                |   |  |  |



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|---|---------------------------|------------------------------|---|
|   |                           |                              |   |
| ACGI<br>NZ O  |                           |                              | Threshold Limit Values (TLV)<br>Workplace Exposure Standards for Atmospher-<br>ts |
|   | H / TWA<br>EL / WES-TWA   |                              | eighted average<br>posure Standard - Time Weighted average                        |
| AllC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport<br>Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CM<br>Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute<br>Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated v<br>x% response; ELx - Loading rate associated with x% response; EmS - Emergency Sched<br>ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated v<br>x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized S<br>tem; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IA<br>- International Air Transport Association; IBC - International Code for the Construction a<br>Equipment of Ships carrying Dangerous Chemicals in Bulk; ICS0 - Half maximal inhibitory of<br>centration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Che<br>cal Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International<br>ganisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal C<br>centration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Mec<br>Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Sh<br>n.o.s Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Eff<br>Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Ef-<br>Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - N<br>Zealand Inventory of Chemicals; GECD - Organization for Economic Co-operation and Devel<br>ment; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccur<br>lative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substa<br>es; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC)<br>1907/2006 of the European Parliament and of the Council concerning the Registr |                           |                              |   |

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.

NZ / EN