# **BAYFERROX 318**



| Version | Revision Date: | SDS Number:  |
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| 2.0     | 08.04.2021     | 203000012120 |

Date of last issue: 23.09.2020 Country / Language:AU / 6N

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

| Product name : | BAYFERROX 318 |
|----------------|---------------|
|----------------|---------------|

: 0000000000249394 Product code

#### Manufacturer or supplier's details

| Supplier                   | : | LANXESS Pty Ltd<br>2d Factory Street<br>Granville, NSW 2142, Australia  |
|----------------------------|---|---|
| Responsible Department     | : | +612 8868 7211<br>infosds@lanxess.com   |
| Emergency telephone number | : | YLXS-YADD00000000174<br>For 24/7 multilingual emergency please call toll free<br>CHEMTREC APAC: +65 3163 8374 and mention CCN<br>1001750. |

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### Recommended use of the chemical and restrictions on use

| Recommended use : | Colorants (pigments and dyestuffs), inorganic |
|-------------------|---|
|-------------------|---|

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

#### **GHS Classification**

Not a hazardous substance or mixture.

### **GHS** label elements

Not a hazardous substance or mixture.

## Other hazards which do not result in classification

None known.

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

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

Chemical nature : Fe3O4

### Components

| Chemical name                               | CAS-No.    | Concentration (% w/w) |
|---|------------|-----------------------|
| calcium sulfate (Dust containing < 1% SiO2) | 7778-18-9  | < 10                  |
| calcium chloride                            | 10043-52-4 | < 10                  |

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### **SECTION 4. FIRST AID MEASURES**

| General advice             | :   | Do not leave the victim unattended.   |
|----------------------------|-----|---|
| If inhaled                 | :   | Move the victim to fresh air.<br>Get medical attention if symptoms occur.<br>If not breathing, if breathing is irregular or if respiratory arrest<br>occurs, provide artificial respiration or oxygen by trained per-<br>sonnel.<br>If unconscious, place in recovery position and get medical<br>attention immediately.<br>Loosen tight clothing such as a collar, tie, belt or waistband. |
| In case of skin contact    | :   | No special measures required.   |
| In case of eye contact     | :   | Immediately flush eyes with plenty of water, occasionally lifting<br>the upper and lower eyelids.<br>If easy to do, remove contact lens, if worn.<br>Continue to rinse for at least 10 minutes.<br>Get medical attention if symptoms appear.  |
| If swallowed               | :   | No special measures required.   |
| Most important symptoms a  | and | effects, both acute and delayed   |
| Symptoms                   | :   | See Section 11 for more detailed information on health ef-<br>fects and symptoms.   |
| Risks                      | :   | See Section 11 for more detailed information on health ef-<br>fects and symptoms.   |
| Protection of first-aiders | :   | No action shall be taken involving any personal risk or without suitable training.  |
| Notes to physician         | :   | Treat symptomatically.  |

### **SECTION 5. FIREFIGHTING MEASURES**

| Suitable extinguishing media              | : | In case of fire, use water spray (fog), foam, dry chemical or $\text{CO}_2$ . |
|---|---|---|
| Unsuitable extinguishing media            | : | None known.   |
| Specific hazards during fire-<br>fighting | : | No information available.   |

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|         |                |              |                                |

| Hazardous combustion prod-<br>ucts            | : | The product itself does not burn.   |
|---|---|---|
| Specific extinguishing meth-<br>ods           | : | Standard procedure for chemical fires.<br>Promptly isolate the scene by removing all persons from the<br>vicinity of the incident if there is a fire.<br>Use extinguishing measures that are appropriate to local cir-<br>cumstances and the surrounding environment.<br>Fire residues and contaminated fire extinguishing water must<br>be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | : | Fire-fighters should wear appropriate protective equipment<br>and self-contained breathing apparatus (SCBA) with a full<br>face-piece operated in positive pressure mode.   |

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

| Personal precautions, protec- :<br>tive equipment and emer-<br>gency procedures | No action shall be taken involving any personal risk or without<br>suitable training.<br>Keep unnecessary and unprotected personnel from entering.<br>Avoid breathing dust.<br>Use personal protective equipment.<br>Avoid dust formation. |
|---|--|
| Environmental precautions :   | Avoid dispersal of spilt material and runoff and contact with<br>soil, waterways, drains and sewers.<br>If the product contaminates rivers and lakes or drains inform<br>respective authorities.   |
| Methods and materials for : containment and cleaning up                         | Pick up and arrange disposal without creating dust.<br>Sweep up and shovel.<br>Keep in suitable, closed containers for disposal.   |

### SECTION 7. HANDLING AND STORAGE

| Advice on protection against fire and explosion | : | Provide appropriate exhaust ventilation at places where dust is formed.   |
|---|---|---|
| Advice on safe handling                         | : | For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the ap-<br>plication area.                                   |
| Hygiene measures                                | : | General industrial hygiene practice.  |
|   |   | When using do not eat, drink or smoke.<br>Wash face, hands and any exposed skin thoroughly after<br>handling.<br>Wash contaminated clothing before reusing. |
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| Condi   | tions for safe storage | Store in origina<br>dry, cool and w<br>materials (see s | ance with local regulations.<br>I container protected from direct sunlight in a<br>ell-ventilated area, away from incompatible<br>Section 10) and food and drink.<br>s tightly closed in a dry, cool and well-<br>e. |

|   |   | the technological safety standards.      |
|---|---|--|
| Materials to avoid                            | : | No materials to be especially mentioned. |
| Recommended storage tem-<br>perature          | : | < 80 °C                                  |
| Further information on stor-<br>age stability | : | Keep in a dry place.                     |

Electrical installations / working materials must comply with

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Components                                       | CAS-No.  | Value type<br>(Form of<br>exposure)  | Control parame-<br>ters / Permissible<br>concentration | Basis  |
|--|--|--|--|--------|
| calcium sulfate (Dust contain-<br>ing < 1% SiO2) | 7778-18-9  | TŴA  | 10 mg/m3   | AU OEL |
|  |  | TWA (Inhal-<br>able particu-<br>late matter)   | 10 mg/m3<br>(Calcium)                                  | ACGIH  |
| Engineering measures                             | : This information                               | tion is not availab  | ble.   |        |
| Personal protective equipme                      | nt   |  |  |        |
| Respiratory protection                           | : Dust-protecti                                  | on mask if there   | is a risk of dust forma                                | ation. |
| Filter type                                      | : P1 filter                                      |  |  |        |
| Hand protection<br>Wearing time                  | : < 60 min                                       |  |  |        |
| Material   | : Leather glove                                  | Leather gloves   |  |        |
| Eye protection                                   | : Safety glasse                                  | es   |  |        |
| Skin and body protection                         | tration and a<br>cific work-pla<br>Additional bc | Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.<br>Additional body garments should be used (e.g. sleevelets, apron, disposable suit etc.), based on the task being per- |  |        |

### Components with workplace control parameters

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| SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES      |   |                             |  |  |  |
|--|---|-----------------------------|--|--|--|
| Appearance                                       | : | powder                      |  |  |  |
| Physical state                                   | : | solid                       |  |  |  |
| Colour   | : | black                       |  |  |  |
| Odour  | : | odourless                   |  |  |  |
| Odour Threshold                                  | : | Not applicable              |  |  |  |
| рН   | : | 4 - 8<br>Concentration: 5 % |  |  |  |
| Melting point/range                              | : | 1,597 °C                    |  |  |  |
| Boiling point/boiling range                      | : | No data available           |  |  |  |
| Flash point                                      | : | No data available           |  |  |  |
| Evaporation rate                                 | : | No data available           |  |  |  |
| Self-ignition                                    | : | No data available           |  |  |  |
| Burning number                                   | : | No data available           |  |  |  |
| Upper explosion limit / Upper flammability limit | : | No data available           |  |  |  |
| Lower explosion limit / Lower flammability limit | : | No data available           |  |  |  |
| Vapour pressure                                  | : | Not applicable              |  |  |  |
| Relative density                                 | : | No data available           |  |  |  |
| Density  | : | 4.6 g/cm3 (20 °C)           |  |  |  |
| Bulk density                                     | : | 300 - 1,000 kg/m3           |  |  |  |
| Solubility(ies)<br>Water solubility              | : | insoluble                   |  |  |  |

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|                |                                |   |                         |  |
| Sol            | ubility in other solvents      | : | No data available       | )  |
|                | on coefficient: n-<br>bl/water | : | No data available       |  |
| Decon          | nposition temperature          | : | > 80 °C                 |  |
| Viscos<br>Vis  | ity<br>cosity, dynamic         | : | No data available       | 9  |

| Viscosity, kinematic | : | No data available |
|----------------------|---|-------------------|
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data available |

### SECTION 10. STABILITY AND REACTIVITY

| Reactivity                              | : | No specific test data related to reactivity available for this product or its ingredients.  |
|---|---|---|
| Chemical stability                      | : | The product is chemically stable.   |
| Possibility of hazardous reac-<br>tions | : | No dangerous reaction known under conditions of normal use.   |
| Conditions to avoid                     | : | At temperatures above 80 °C the product may become unsta-<br>ble and oxidise.<br>This generates additional heat which, under unfavourable<br>conditions, may result in the combustion of flammable materi-<br>als.<br>The product should therefore not be stored near heat sources. |
| Incompatible materials                  | : | No specific data.   |
| Hazardous decomposition products        | : | No decomposition if stored and applied as directed.   |

### SECTION 11. TOXICOLOGICAL INFORMATION

| Exposure routes                           | : Inhalation<br>Eye contact<br>Skin contact  |  |  |  |
|---|--|--|--|--|
| Acute toxicity<br>Not classified based on | available information.   |  |  |  |
| Product:                                  |  |  |  |  |
| Acute oral toxicity                       | : LD50 (Rat, male and female): > 5,000 mg/kg<br>Remarks: Information refers to the main component. |  |  |  |
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## Components:

| calcium sulfate (Dust conta                                 | calcium sulfate (Dust containing < 1% SiO2): |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Acute oral toxicity   | :  | Assessment: The substance or mixture has no acute oral tox-<br>icity   |  |  |  |  |
| Acute inhalation toxicity                                   | :  | LC50 (Rat, male and female): > 2.61 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>GLP: yes<br>Assessment: The substance or mixture has no acute inhala-<br>tion toxicity<br>Remarks: Dosage caused no mortality |  |  |  |  |
| Acute dermal toxicity                                       | :  | Assessment: The substance or mixture has no acute dermal toxicity  |  |  |  |  |
| calcium chloride:   |  |  |  |  |  |  |
| Acute oral toxicity   | :  | LD50 (Rat, male and female): 2,301 mg/kg<br>Method: OECD Test Guideline 401<br>GLP: yes  |  |  |  |  |
| Acute dermal toxicity                                       | :  | LD50 (Rabbit, male and female): > 5,000 mg/kg  |  |  |  |  |
| Skin corrosion/irritation<br>Not classified based on availa | able   | information.   |  |  |  |  |
| <u>Product:</u><br>Species<br>Method<br>Result              | :  | Rabbit<br>OECD Test Guideline 404<br>No skin irritation  |  |  |  |  |
| Remarks   | :  | Information refers to the main component.  |  |  |  |  |
| Components:   |  |  |  |  |  |  |
| calcium sulfate (Dust conta                                 | inir   | ng < 1% SiO2):   |  |  |  |  |
| Species   | :  | Rabbit   |  |  |  |  |
| Exposure time   | :  | 4 h  |  |  |  |  |
| Method<br>Result  | :  | OECD Test Guideline 404<br>No skin irritation  |  |  |  |  |
| calcium chloride:   |  |  |  |  |  |  |
| Species   | :  | Rabbit   |  |  |  |  |
| Exposure time<br>Method                                     | :  | 4 h<br>OECD Test Guideline 404   |  |  |  |  |
| Result  | •  | No skin irritation   |  |  |  |  |
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GLP

: yes

### Serious eye damage/eye irritation

Not classified based on available information.

### Product:

| Species | : | Rabbit                  |
|---------|---|-------------------------|
| Result  | : | No eye irritation       |
| Method  | : | OECD Test Guideline 405 |

### Components:

### calcium sulfate (Dust containing < 1% SiO2):

| Species | : | Rabbit                  |
|---------|---|-------------------------|
| Result  | : | No eye irritation       |
| Method  | : | OECD Test Guideline 405 |

#### calcium chloride:

| Species | : | Rabbit                  |
|---------|---|-------------------------|
| Result  | : | Irritating to eyes.     |
| Method  | : | OECD Test Guideline 405 |
| GLP     | : | yes                     |

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### Product:

| Species : | Skin contact<br>Guinea pig<br>Not a skin sensitizer. |
|-----------|--|
| Result    | Not a skin sensitizer.                               |
| Remarks : | Information refers to the main component.            |

#### **Components:**

### calcium sulfate (Dust containing < 1% SiO2):

| Exposure routes : | Skin contact                                       |
|-------------------|--|
| Species :         | Guinea pig   |
| Method :          | OECD Test Guideline 406                            |
| Result :          | Did not cause sensitisation on laboratory animals. |
| GLP :             | yes  |
|                   | -  |

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| calcium chloride:Exposure routes:Species:Result:            | Skin contact<br>Guinea pig<br>Did not cause sensitisation on laboratory animals.  |
|---|---|
| Chronic toxicity  |   |
| Germ cell mutagenicity<br>Not classified based on available | e information.  |
| Product:  |   |
| Genotoxicity in vitro :                                     | Test Type: Ames test<br>Test system: Bacteria<br>Metabolic activation: with and without metabolic activation<br>Result: negative<br>Remarks: Information refers to the main component.                    |
|   | Test system: Mammalian-Animal<br>Metabolic activation: with and without metabolic activation<br>Method: OECD Test Guideline 476<br>Result: negative<br>Remarks: Information refers to the main component. |
|   | Test system: Mammalian-Animal<br>Metabolic activation: with and without metabolic activation<br>Method: OECD Test Guideline 473<br>Result: negative<br>Remarks: Information refers to the main component. |
| Components:   |   |
| calcium sulfate (Dust containi                              | ng < 1% SiO2):  |
| Genotoxicity in vitro :                                     | Test system: Salmonella typhimurium<br>Metabolic activation: with and without metabolic activation<br>Method: OECD Test Guideline 471<br>Result: negative<br>GLP: yes                                     |
|   | Test system: mouse lymphoma cells<br>Metabolic activation: with and without metabolic activation<br>Method: OECD Test Guideline 476<br>Result: negative<br>GLP: yes                                       |

| Genotoxicity in vivo | : Species: Mouse (male)<br>Application Route: Oral<br>Exposure time: 1 d<br>Method: OECD Test Guideline 474<br>Result: negative<br>GLP: yes |
|----------------------|---|
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## calcium chloride:

| Genotoxicity in vitro | : Test system: Bacteria                         |
|-----------------------|---|
|                       | Metabolic activation: with metabolic activation |
|                       | Method: OECD Test Guideline 471                 |
|                       | Result: negative                                |
|                       | -   |

Test system: Chinese hamster fibroblasts Metabolic activation: without metabolic activation Method: OECD Test Guideline 473 Result: negative

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

### **Components:**

### calcium sulfate (Dust containing < 1% SiO2):

| Effects on fertility               | : | Species: Rat, male and female<br>Application Route: Oral<br>Duration of Single Treatment: 2 Weeks<br>General Toxicity - Parent: NOAEL: 790 mg/kg body weight<br>General Toxicity F1: NOAEL: 790 mg/kg body weight<br>Method: OECD Test Guideline 422<br>GLP: yes |
|------------------------------------|---|--|
| Effects on foetal develop-<br>ment | : | Species: Rat<br>Application Route: Oral  |

| ent | Application Route: Oral                                   |
|-----|---|
|     | Duration of Single Treatment: 10 Days                     |
|     | General Toxicity Maternal: NOAEL: 1,600 mg/kg body weight |
|     | Method: OECD Test Guideline 414                           |
|     | GLP: no   |
|     |   |

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### **Components:**

### calcium sulfate (Dust containing < 1% SiO2):

Assessment

: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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### Repeated dose toxicity

| Product:            |   |   |
|---------------------|---|---|
| Species             | : | Rat, male                                 |
| LÖAEL               | : | >185,6 mg/m³                              |
| Application Route   | : | Inhalation                                |
| Test atmosphere     | : | dust/mist                                 |
|                     | : | 2 Weeks                                   |
| Number of exposures | : | 5 days/week                               |
| Remarks             | : | Information refers to the main component. |

### **Components:**

## calcium sulfate (Dust containing < 1% SiO2):

| Species             | : | Rat, male and female    |
|---------------------|---|-------------------------|
| NOAEL               | : | 79 mg/kg                |
| Application Route   | : | Oral                    |
| Exposure time       | : | 35 Days                 |
| Number of exposures | : | daily                   |
| Method              | : | OECD Test Guideline 422 |
| GLP                 | : | yes                     |
|                     |   |                         |

### Aspiration toxicity

Not classified based on available information.

### **SECTION 12. ECOLOGICAL INFORMATION**

| Ecoto | xicity |
|-------|--------|
|-------|--------|

### Product:

| Toxicity to fish :                                    | LC0 (Danio rerio (zebra fish)): > 10,000 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br>Remarks: Fresh water<br>Information refers to the main component.                       |
|---|--|
| Toxicity to daphnia and other : aquatic invertebrates | EC0 (Daphnia magna (Water flea)): > 10,000 mg/l<br>Exposure time: 48 h<br>Method: Regulation (EC) No. 440/2008, Annex, C.2<br>Remarks: Fresh water<br>Information refers to the main component.    |
| Toxicity to microorganisms :                          | EC50 (adapted and activated sludge micro-organism): ><br>10,000 mg/l<br>Exposure time: 3 h<br>Method: OECD Test Guideline 209<br>Remarks: Fresh water<br>Information refers to the main component. |

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### Components:

| calcium sulfate (Dust containing < 1% SiO2):        |   |   |  |
|---|---|---|--|
| Toxicity to fish                                    | : | LC50 (Oryzias latipes (Orange-red killifish)): > 79 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br>GLP: yes<br>Remarks: Dosage caused no mortality |  |
| Toxicity to daphnia and other aquatic invertebrates | : | LC50 (Daphnia (water flea)): > 79 mg/l<br>Exposure time: 48 h<br>Remarks: Dosage caused no mortality  |  |
| Toxicity to algae/aquatic plants                    | : | EC50 (Pseudokirchneriella subcapitata (green algae)): > 79<br>mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>GLP: yes                              |  |
| Ecotoxicology Assessment                            |   |   |  |
| Acute aquatic toxicity                              | : | This product has no known ecotoxicological effects.<br>Remarks: No harmful effect in the area of water solubility.  |  |
| Chronic aquatic toxicity                            | : | This product has no known ecotoxicological effects.<br>Remarks: No harmful effect in the area of water solubility.  |  |
| calcium chloride:                                   |   |   |  |
| Toxicity to fish                                    | : | LC50 (Pimephales promelas (fathead minnow)): 4,630 mg/l<br>Exposure time: 96 h<br>Remarks: Fresh water  |  |
| Toxicity to daphnia and other aquatic invertebrates | : | LC50 (Daphnia magna (Water flea)): 2,400 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202<br>GLP: yes<br>Remarks: Fresh water                           |  |
|   |   | NOEC (Daphnia magna (Water flea)): 2,000 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202<br>GLP: yes<br>Remarks: Fresh water                           |  |
| Toxicity to algae/aquatic plants                    | : | EC50 (Pseudokirchneriella subcapitata (microalgae)): 2,900<br>mg/l<br>End point: Biomass<br>Exposure time: 96 h<br>Method: OECD Test Guideline 201<br>GLP: yes        |  |
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|  | EC50 (Pseudokirchneriella subcapitata (microalgae)): > 4,000<br>mg/l<br>End point: Growth rate<br>Exposure time: 96 h<br>Method: OECD Test Guideline 201<br>GLP: yes                |
|--|---|
| Persistence and degradability                        |   |
| Components:  |   |
| calcium sulfate (Dust containi                       | ng < 1% SiO2):  |
| Biodegradability :                                   | Remarks: The methods for determining biodegradability are not applicable to inorganic substances.   |
| calcium chloride:                                    |   |
| Biodegradability :                                   | Result: The methods for determining the biological degradabil-<br>ity are not applicable to inorganic substances.   |
| Bioaccumulative potential                            |   |
| Components:  |   |
| calcium sulfate (Dust containi                       | ng < 1% SiO2):  |
| Bioaccumulation :                                    | Remarks: Bioaccumulation is unlikely.   |
| Partition coefficient: n- :<br>octanol/water         | Remarks: Not applicable   |
| <b>Mobility in soil</b><br>No data available         |   |
| Other adverse effects                                |   |
| Product:<br>Additional ecological infor- :<br>mation | Ecotoxicological data are not available.<br>No known significant effects or critical hazards.   |
| Components:  |   |
| calcium sulfate (Dust containi                       | ng < 1% SiO2):  |
| Results of PBT and vPvB : assessment                 | This substance is not considered to be persistent, bioaccumu-<br>lating and toxic (PBT). This substance is not considered to be<br>very persistent and very bioaccumulating (vPvB). |

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### SECTION 13. DISPOSAL CONSIDERATIONS

| Disposal methods       |  |
|------------------------|--|
| Waste from residues    | <ul> <li>Examine possibilities for re-utilisation.</li> <li>Product residues and uncleaned empty containers should be<br/>packaged, sealed, labelled, and disposed of or recycled ac-<br/>cording to relevant national and local regulations.</li> <li>When uncleaned empty containers are passed on, the recipi-<br/>ent must be warned of any possible hazard that may be<br/>caused by residues.</li> </ul> |
| Contaminated packaging | : Empty containers should be taken to an approved waste han-<br>dling site for recycling or disposal.  |

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

#### **International Regulations**

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.

### **National Regulations**

ADG

Not regulated as a dangerous good

### Hazard and Handling Notes.

Not dangerous cargo., Keep separated from foodstuffs.

### **SECTION 15. REGULATORY INFORMATION**

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

Standard for the Uniform : Schedule 6 Scheduling of Medicines and Poisons

International Chemical Weapons Convention (CWC) : Not applicable Schedules of Toxic Chemicals and Precursors

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Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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

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

#### Full text of other abbreviations

| ACGIH<br>AU OEL             |   | USA. ACGIH Threshold Limit Values (TLV)<br>Australia. Workplace Exposure Standards for Airborne Con-<br>taminants. |
|-----------------------------|---|--|
| ACGIH / TWA<br>AU OEL / TWA | : | 8-hour, time-weighted average<br>Exposure standard - time weighted average   |

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 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; TSCA - Toxic Substances Control Act (United States); UN - Unit-



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ed Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered to be a guidance for processing and does not contain any warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.