

VALAGRO SDS according to to HSNO Regulations – NZ EPA
Date: July 7, 2021 version number: 1.0
Product: Brexil Fe
Code: 1286
Print Date: July 7, 2021

SAFETY DATA SHEET

Brexil Fe

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : BREXIL Fe
Product code : 1286

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Fertilizer

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributed and guaranteed by:
Campbells Fertilisers Australasia
18 Raymond Road, Laverton North, Victoria, 3026
Phone: (03) 9931 2211
Fax: (03) 9931 2201
www.campbellsfert.com.au

Competent person responsible for the safety data sheet:
regulatory@valagro.com

1.4. Emergency telephone number

Poison Information Centre - Telephone: 131126 (Australia wide – 24HRS)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2020, New Zealand.
Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

HSNO Classification:

6.4A – Substances that are irritating to the eye.
6.3A – Substances that are irritating to the skin

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) : Warning

Hazard statement codes:

H319 - Causes serious eye irritation
H315 - Causes skin irritation

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Precautionary statement codes – Prevention:

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children.

P103 - Read label before use

P264 - Wash exposure areas thoroughly after handling.

P280 - Wear protective gloves/safety goggles and face shield

Precautionary statement codes – Response:

P302 + P352 – IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P321 - Specific treatment (see ... On this label)

P332 + P313 – If Skin irritation occurs: get medical advice/attention

P362 – Take off contaminated clothing and wash before reuse

Precautionary statement codes – Disposal:

P501 - Dispose of contents/container to comply with applicable local, national and international regulation

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Cas No. | % | Approval Status (NZIoC) |
|--|-----------|--------------|---------------------------------|
| Iron (II) sulfate | 7720-78-7 | >= 30 - < 40 | HSNO Approval Code HSR003420 |
| Other ingredients not subject to the provisions of the Hazardous Substances (identification) Regulations 2001, make up the product concentration to 100% | | | |

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
| First-aid measures after inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. Seek medical advice. |
| First-aid measures after skin contact | : Remove contaminated clothing immediately and dispose of safely. Wash skin thoroughly with mild soap and water. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye. |
| First-aid measures after ingestion | : If swallowed, rinse mouth with water (only if the person is conscious). Give water to drink if victim completely conscious/alert. Do not induce vomiting without medical advice. Immediately call a POISON CENTER or doctor/ physician. |
| Other information | : For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|--------------------------------------|--|
| Symptoms/injuries after inhalation | : Inhalation may cause irritation, cough, shortness of breath. |
| Symptoms/injuries after skin contact | : Frequent or prolonged contact with skin may cause dermal irritation. Symptoms include redness, itching, and burning of the skin. |

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Symptoms/injuries after eye contact : Causes serious eye irritation. Pain, redness,
Symptoms/injuries after ingestion : May cause gastric irritation. Vomiting, stomach pain.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media**Suitable extinguishing media : Carbon dioxide (CO₂). Water spray. Foam. Powder.**5.2. Special hazards arising from the substance or mixture**

Fire hazard : Do not breathe fumes.
Explosion hazard : Explosive dust-air mixtures may form.
Hazardous decomposition products in case of fire : Sulfur oxides, carbon oxides (CO and CO₂). Nitrogen oxides. Metal oxides.

5.3. Advice for firefighters

Precautionary measures fire : Evacuate the personnel away from the fumes.
Firefighting instructions : Move undamaged containers from immediate hazard area if it can be done safely.
Protective equipment for firefighters : Extra personal protection: complete protective clothing including self-contained breathing apparatus.
Other information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Do not allow run-off from fire fighting to enter drains or water courses.
Hazchem Code : 2Z

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Protective equipment : Do not attempt to take action without suitable protective equipment. Wear suitable protective clothing, gloves and eye/face protection.
Emergency procedures : Alert emergency personnel. Eliminate all ignition sources if safe to do so. Provide adequate ventilation.
Measures in case of dust release : Dust production: dust mask with filter type P2.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray. Dust production: dust mask with filter type P2.
Emergency procedures : Evacuate unnecessary personnel. Avoid generation of dust. Dust may form explosive mixture in air. Eliminate all ignition sources if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so.
Methods for cleaning up : Ventilate affected area. Wear personal protection equipment. Minimize generation of dust. Wash with plenty of soap and water. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Consult the appropriate authorities about waste disposal.
Other information : Do not allow uncontrolled discharge of product into the environment.

6.4. Reference to other sections

For disposal of residues refer to section 13 : Disposal considerations. For further information refer to section 8: "Exposure controls/personal protection".

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust, fume, mist, vapours. Minimize generation of dust. Keep away from sources of ignition - No smoking. Do not re-use empty containers without proper cleaning or reconditioning.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep in original containers. Store tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight. Use care during processing to minimize generation of dust. Explosive dust-air mixtures may form.
- Incompatible products : Strong bases. Strong acids. Oxidising agents. reducing agents.
- Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.
- Prohibitions on mixed storage : Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

New Zealand Workplace Exposure Standard:

No value assigned for any of the ingredients by the New Zealand Department of Labour (Health & Safety).

Iron (II) sulfate (7720-78-7)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal 1.6 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 5.5 mg/m³

DNEL/DMEL (General population)

Long-term - systemic effects, oral 0.8 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 1.4 mg/m³

Long-term - systemic effects, dermal 0.8 mg/kg bodyweight/day

PNEC (Sediment)

PNEC sediment (freshwater) 49.5 mg/kg dwt referred to Iron concentration

PNEC (Soil)

PNEC soil 55 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant 500 mg/l referred to Iron concentration

8.2. Exposure controls

Appropriate engineering controls: Provide adequate ventilation.

Personal protective equipment: Safety glasses. Gloves. Protective clothing.

Hand protection: Chemical resistant nitrile gloves (to European standard EN 374 or equivalent). Breakthrough time : > 480 min. Thickness of glove material: > 0,13 mm

Eye protection: Use eye protection according to EN 166, designed to protect dusts. Tightly fitting safety goggles

Skin and body protection: Use chemically protective clothing. EN 14605

Respiratory protection: Dust production: dust mask with filter type P2. EN 149

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**Environmental exposure controls:** Do not allow into drains or water courses. Do not allow to enter into soil/subsoil.**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

| | |
|---|--|
| Physical state | : Solid |
| Appearance | : Granular solid. |
| Colour | : brown. |
| Odour | : coffee. |
| Odour threshold | : No data available |
| pH | : No data available |
| pH water solution 1% (t = 20°C) | : 3,3 |
| Relative evaporation rate (butyl acetate=1) | : not applicable, solid |
| Melting point | : No data available |
| Freezing point | : not applicable, solid |
| Boiling point | : not applicable, solid |
| Flash point | : not applicable, solid |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : not applicable, solid |
| Relative vapour density at 20 °C | : not applicable, solid |
| Relative density | : No data available |
| Density | : 0,6 – 0.7 kg/l |
| Solubility | : Water: 400 g/l @ 20 °C |
| Log Pow | : No data available |
| Viscosity, kinematic | : not applicable, solid |
| Viscosity, dynamic | : not applicable, solid |
| Explosive properties | : Not expected to be explosive as none of the components is classified as explosive. |
| Oxidising properties | : None of the components are classified for oxidizing properties. |
| Explosive limits | : No data available |

9.2. Other information

Specific conductivity : Not available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions. No polymerization. May react with alkalis such as lime to generate ammonia vapours.

10.4. Conditions to avoid

Overheating. Avoid generation of dust. Accumulation of airborne dusts may present an explosion hazard in the presence of an ignition source.

10.5. Incompatible materials

Oxidising agents. reducing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

During a fire: Sulfur oxides. Carbon oxides (CO, CO₂). Nitrogen oxides (NO_x). Metal oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Iron (II) sulfate (7720-78-7)

| | |
|-------------|--------------|
| LD50 dermal | > 2000 mg/kg |
|-------------|--------------|

Skin corrosion/irritation : Irritant

Serious eye damage/irritation : irritant

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Based on available data, the product is non toxic for the environment

The release of large amounts may cause a decreasing of the pH value and can have negative effects on aquatic environments

12.2. Persistence and degradability

No data available for the mixture;

The mixture contain Lignisulfonato ammonium that is a natural product biodegradable

Not applicable for inorganic salts such as iron sulfate

12.3. Bioaccumulative potential

The product does not contain any bioaccumulative substances

12.4. Mobility in soil

| | |
|------------------|---|
| Mobility in soil | In general, the mobility in the soil of the microelements in the mixture is influenced by several factors such as pH, CO ₂ concentration, redox conditions, and availability of organic and inorganic complexing agents. |
|------------------|---|

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12.5. Results of PBT and vPvB assessment

| Brexil Fe | |
|---------------------------|--|
| Results of PBT assessment | The components in this formulation do not meet the criteria for classification as PBT or vPvB. |

12.6. Other adverse effects

Other adverse effects : None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Reuse or recycle following decontamination. External recovery and recycling of waste should comply with applicable local and/or national regulations.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
 Contains no substance on the REACH candidate list
 Contains no REACH Annex XIV substances

15.1.2. National regulations

New Zealand

Classification: : Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2020.

National Chemical Inventories (NZIoC) : All components are listed on the New Zealand Inventory of Chemicals

HSNO Approval Number (Group Standard) : HSR002571. Fertiliser (Subsidiary Hazard) Group Standard 2006

15.2. Chemical safety assessment

| For the following substances of this mixture a chemical safety assessment has been carried out |
|--|
| Iron (II) sulfate |

SECTION 16: Other information

Abbreviations and acronyms:

| | |
|------|---|
| SDS | Safety Data Sheet |
| CAS | Chemical Abstracts Service |
| GHS | Globally Harmonised System |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |

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| | |
|-------|---|
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rai |
| PNEC | Predicted No-Effect Concentration |
| PBT | Persistent Bioaccumulative Toxic |
| vPvB | Very Persistent and Very Bioaccumulative |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |

Other information

: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product.