

VALAGRO SDS  
Date: 17/09/2021 version number: 1.2  
Product: Brexil Zn  
Code: 1285  
Print Date: 17 September 2021

## SAFETY DATA SHEET

### BREXIL Zn

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

##### 1.1. Product identifier

Product form : Mixture  
Trade name : Brexil Zn  
Product code : 1285

##### 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

AGRITRADE  
1 Robin Mann Place  
Christchurch Airport  
Christchurch 8053  
New Zealand  
Ph 03 341 4587  
Fax 03 341 4584  
Free Phone 0800 333 855  
[agritrade@nzagritrade.co.nz](mailto:agritrade@nzagritrade.co.nz)

##### 1.4. Emergency telephone number

Emergency number : 24 Hour Emergency Contact: 0800 CHEMCALL (0800 243622)  
: 111 Police, Ambulance and Fire Brigade (available in New Zealand only)  
NZ POISON CENTRE CONTACT : 0800 764 766 (National Poisons Information Centre)

#### SECTION 2: Hazards identification

##### 2. Classification of the substance or mixture

Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

Classification according to the Hazardous Substances (Classification) Notice 2020, New Zealand.

###### HSNO Classification:

6.4A – Substances that are irritating to the eye.

9.1D - substances that are very ecotoxic in the aquatic environment.

###### Hazard statement codes:

H319 - Causes serious eye irritation

H410 - Very toxic to aquatic life with long lasting effects

###### Precautionary statement codes - Prevention:

P103 - Read label before use

P264 - Wash exposure areas thoroughly after handling.

P273 - Avoid release to the environment

P280 - Wear eye protection, face protection

###### Precautionary statement codes - Response:

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

P337+P313 - If eye irritation persists: get medical advice/attention

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**Precautionary statement codes - Disposal:**

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

Hazard pictograms (CLP) :



GHS07

GHS09

Signal word (CLP) :

Warning

Hazardous ingredients :

Zinc sulphate

**SECTION 3: Composition/information on ingredients**

**3.1. Substance**

Not applicable

**3.2. Mixture**

Name	Product identifier	%	Hazard Codes
Zinc sulphate	(CAS No) 7733-02-0	21 - 26	H302 H318 H400 H410

Other ingredients, determined not to be hazardous 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 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. If concentrate is splashed in eyes, flush with running water for at least 15 minutes. Take to hospital without delay. For advice contact the National Poisons Centre 0800 POISON (0800 764766)
- 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. Obtain medical attention.
- Other Information : For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>). Water.
- Unsuitable extinguishing media : combustible materials.

**5.2. Special hazards arising from the substance or mixture**

- Fire hazard : Do not breathe fumes.
- Hazardous decomposition products in case of fire : Sulfur oxides. carbon oxides (CO and CO<sub>2</sub>). Nitrogen oxides. Zinc oxide.

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**5.3. Advice for firefighters**

Precautionary measures fire	: Evacuate the personnel away from the fumes.
Firefighting instructions	: Cool down the containers exposed to heat with a water spray. 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	: 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".

**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.
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- Incompatible products : Oxidising agents. reducing agents. Bases.
- 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**

<b>Zinc sulphate (7733-02-0)</b>	
<b>New Zealand Workplace Exposure Standard:</b>	
No value assigned for this specific material by the New Zealand Department of Labour (Health & Safety).	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	500 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	50 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1,3 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	500 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,0206 mg/l
PNEC aqua (marine water)	0,0061 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	235,6 mg/kg dwt
PNEC sediment (marine water)	113 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	106,8 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	0,052 mg/l

**8.2. Exposure controls**

- Appropriate engineering controls : Provide adequate ventilation.
- Personal protective equipment : Safety glasses. Gloves. Protective clothing.
- Hand protection : Chemical resistant gloves (according to European standard EN 374 or equivalent).  
Protective gloves made of nitrile
- Eye protection : Wear eye glasses with side protection according to EN 166.
- Skin and body protection : Use chemically protective clothing
- Respiratory protection : Dust production: dust mask with filter type P2



- 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.



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Colour	: brown.
Odour	: coffee.
Odour threshold	: No data available
pH	: No data available
pH solution	: 3,5 1% (t = 20°C)
Relative evaporation rate (butyl acetate=1)	: Not applicable, solid
Melting point	: No data available
Freezing point	: No data available
Boiling point	: not applicable, solid
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: not applicable, solid
Vapour pressure at 50 °C	: not applicable, solid
Relative vapour density at 20 °C	: not applicable, solid
Relative density	: No data available
Density	: 0,6 kg/l
Solubility	: Water: 300 g/l @ 20 °C
Log Pow	: No data available
Viscosity, kinematic	: not applicable, solid
Viscosity, dynamic	: No data available
Explosive properties	: Not expected to be explosive as none of the components is classified as explosive.
Oxidising properties	: Not expected to be oxidising as none of the components is classified as oxidising.
Explosive limits	: No data available

**9.2. Other information**

Specific conductivity : 43000 µS/m @ 18 °C

**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.

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#### 10.4. Conditions to avoid

Overheating.

#### 10.5. Incompatible materials

Oxidising agents. reducing agents. Acids.

#### 10.6. Hazardous decomposition products

During a fire: Sulfur oxides. Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Zinc oxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Brexil Zn	
LD50 oral rat	> 2000 mg/kg (OECD guidelines TEST No 423)

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Eye Irritation Category 2. Mixture tested on rabbit. (OECD 405).

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

Brexil Zn	
LC50 fish 96h	> 100 mg/l (Zebra fish (Danio rerio) - OECD 203)
EC50 Daphnia 48h	24,4 mg/l (Daphnia Magna - OECD 202)
ErC50 (algae) 72h	0,67 mg/l (OECD 201)

#### 12.2. Persistence and degradability

Brexil Zn	
Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.

#### 12.3. Bioaccumulative potential

Brexil Zn	
Bioaccumulative potential	Mixture not tested. Low bioaccumulation potential.

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**12.4. Mobility in soil**

Brexil Zn	
Mobility in soil	2,2 Log Kd for Zinc Sulphate
Ecology - soil	Mixture not tested.

**12.5. Other adverse effects**

No additional information available.

**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**

In accordance with ADR / RID / IMDG / IATA / ADN

**14.1. UN number**

UN-No. (ADR) : 3077  
 UN-No. (IMDG) : 3077  
 UN-No. (IATA) : 3077  
 UN-No. (ADN) : 3077  
 UN-No. (RID) : 3077

**14.2. UN proper shipping name**

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc sulphate)  
 Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc sulphate)  
 Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s. (Zinc sulphate)  
 Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc sulphate)  
 Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc sulphate)  
 Transport document description : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, (E)  
 Transport document description (IMDG) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

**14.3. Transport hazard class(es)**

**New Zealand** : NZS 5433:2012 Transport of Dangerous Goods on Land  
 Transport hazard class(es) : 9  
 Hazchem code : ZZ  
 EPG No. : HB76  
 Danger labels (ADR) : 9



**ADR**  
 Transport hazard class(es) (ADR) : 9  
 Danger labels (ADR) : 9



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**IMDG**

Transport hazard class(es) (IMDG) : 9  
 Danger labels (IMDG) : 9



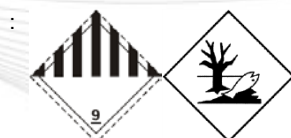
**IATA**

Transport hazard class(es) (IATA) : 9  
 Hazard labels (IATA) : 9



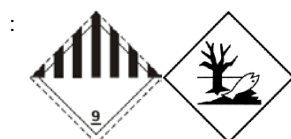
**ADN**

Transport hazard class(es) (ADN) : 9  
 Danger labels (ADN) : 9



**RID**

Transport hazard class(es) (RID) : 9  
 Danger labels (RID) : 9



**14.4. Packing group**

Packing group (ADR) : III  
 Packing group (IMDG) : III  
 Packing group (IATA) : III  
 Packing group (ADN) : III  
 Packing group (RID) : III

**14.5. Environmental hazards**

Dangerous for the environment : Yes  
 Marine pollutant : Yes  
 Other information : No supplementary information available



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**14.6. Special precautions for user****- Overland transport**

Classification code (ADR)	: M7
Special provisions (ADR)	: 274, 335, 601, 375
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: PP12, B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1, BK1, BK2
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAV, LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V13
Special provisions for carriage - Bulk (ADR)	: VC1, VC2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	:



Tunnel restriction code (ADR)	: E
EAC code	: 2Z

**- Transport by sea**

Special provisions (IMDG)	: 274, 335, 966, 967
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002, LP02
Special packing provisions (IMDG)	: PP12
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1, BK1, BK2, BK3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A
Stowage and segregation (IMDG)	: When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
MFAG-No	: 171

**- Air transport**

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y956
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 956
PCA max net quantity (IATA)	: 400kg
CAO packing instructions (IATA)	: 956
CAO max net quantity (IATA)	: 400kg
Special provisions (IATA)	: A97, A158, A179, A197
ERG code (IATA)	: 9L

**- Inland waterway transport**

Classification code (ADN)	: M7
Special provisions (ADN)	: 274, 335, 61
Limited quantities (ADN)	: 5 kg

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Excepted quantities (ADN) : E1  
 Carriage permitted (ADN) : T\* B\*\*  
 Equipment required (ADN) : PP, A  
 Number of blue cones/lights (ADN) : 0  
 Additional requirements/Remarks (ADN) : \* Only in the molten state. \*\* For carriage in bulk see also 7.1.4.1. \*\*\* Only in the case of transport in bulk.

**- Rail transport**

Classification code (RID) : M7  
 Special provisions (RID) : 274, 335, 601  
 Limited quantities (RID) : 5kg  
 Excepted quantities (RID) : E1  
 Packing instructions (RID) : P002, IBC08, LP02, R001  
 Special packing provisions (RID) : PP12, B3  
 Mixed packing provisions (RID) : MP10  
 Portable tank and bulk container instructions (RID) : T1, BK1, BK2  
 Portable tank and bulk container special provisions (RID) : TP33  
 Tank codes for RID tanks (RID) : SGAV, LGBV  
 Transport category (RID) : 3  
 Special provisions for carriage – Packages (RID) : W13  
 Special provisions for carriage – Bulk (RID) : VW1  
 Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31  
 Colis express (express parcels) (RID) : CE11  
 Hazard identification number (RID) : 90

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable

**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 the Hazardous Substances (Classification) Notice 2020, New Zealand.  
 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: **Zinc sulphate (7733-02-0)**

**SECTION 16: Other information**

Issue date :September 17, 2021

Abbreviations and acronyms:

SDS	Safety Data Sheet
CAS	Chemical Abstracts Service
GHS	Globally Harmonised System

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CSR	Chemical Safety Report
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
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
PVC	(Polyvinyl chloride).
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 the mentioned precautionary measures and to ensure that this information is complete and sufficient for the use of this product.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed
H318	Causes serious eye damage
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects