

VALAGRO SDS

Date: June 24, 2020 version number: 1.0

Product: Brexil Zn

Code: 11285

Print Date: 24 June 2020

SAFETY DATA SHEET

BREXIL Zn

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

1.1. Product identifier

Product name : 11285
Product form : Mixture
Trade name : Brexil Zn
Product code : 11285

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. 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 2017 of the HSNO Act, 1996:

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

Precautionary statement codes - Disposal:

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



VALAGRO SDS

Date: June 24, 2020 version number: 1.0

Product: Brexil Zn

Code: 11285

Print Date: 24 June 2020

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 (CO₂). 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 CO₂). Nitrogen oxides. Zinc oxide.

5.3. Advice for firefighters

Precautionary measures fire : Evacuate the personnel away from the fumes.

VALAGRO SDS

Date: June 24, 2020 version number: 1.0

Product: Brexil Zn

Code: 11285

Print Date: 24 June 2020

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 Hazchem Code	: Do not allow run-off from fire fighting to enter drains or water courses. 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.
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.

VALAGRO SDS

Date: June 24, 2020 version number: 1.0

Product: Brexil Zn

Code: 11285

Print Date: 24 June 2020

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

VALAGRO SDS

Date: June 24, 2020 version number: 1.0

Product: Brexil Zn

Code: 11285

Print Date: 24 June 2020

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.

10.4. Conditions to avoid

Overheating.

VALAGRO SDS

Date: June 24, 2020 version number: 1.0

Product: Brexil Zn

Code: 11285

Print Date: 24 June 2020

10.5. Incompatible materials

Oxidising agents. reducing agents. Acids.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

11285	
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

11285	
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

11285	
Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

11285	
Bioaccumulative potential	Mixture not tested. Low bioaccumulation potential.

12.4. Mobility in soil

11285	
Mobility in soil	2,2 Log Kd for Zinc Sulphate

VALAGRO SDS

Date: June 24, 2020 version number: 1.0

Product: Brexil Zn

Code: 11285

Print Date: 24 June 2020

11285	
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 : Z2
- EPG No. : HB76
- Danger labels (ADR) : 9



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



- IMDG**
- Transport hazard class(es) (IMDG) : 9

VALAGRO SDS

Date: June 24, 2020 version number: 1.0

Product: Brexil Zn

Code: 11285

Print Date: 24 June 2020

Danger labels (IMDG) : 9



IATA

Transport hazard class(es) (IATA) : 9

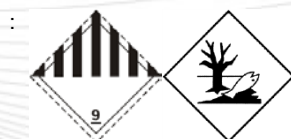
Hazard labels (IATA) : 9



ADN

Transport hazard class(es) (ADN) : 9

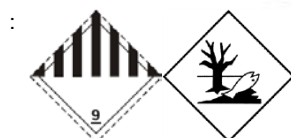
Danger labels (ADN) : 9



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

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : M7

Special provisions (ADR) : 274, 335, 601, 375

Limited quantities (ADR) : 5kg

VALAGRO SDS

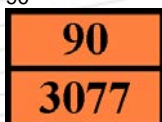
Date: June 24, 2020 version number: 1.0

Product: Brexil Zn

Code: 11285

Print Date: 24 June 2020

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
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.

VALAGRO SDS

Date: June 24, 2020 version number: 1.0

Product: Brexil Zn

Code: 11285

Print Date: 24 June 2020

- 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 HSNO Act 1996; Hazardous Substances (Classification) Notice 2017.

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

Abbreviations and acronyms:

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

VALAGRO SDS

Date: June 24, 2020 version number: 1.0

Product: Brexil Zn

Code: 11285

Print Date: 24 June 2020

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