

SAFETY DATA SHEET

Brexil Multi

SECTION 1: Identification of the s	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: BREXIL MULTI
Product code	: 1447
1.2. Relevant identified uses of the s	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 sat	ety data sheet
AGRITRADE	
411 Blenheim Rd Sockburn	
Christchurch 8140	
Ph 03 341 4587	
Fax 03 341 4584	
Free Phone 0800 333 855	
agritrade@nzagritrade.co.nz	
1.4. Emergency telephone number	
Emergency number	: 24 Hour Emergency Contact: 0800 CHEMCALL (0800 243622)
NZ POISON CENTRE CONTACT	: 111 Police, Ambulance and Fire Brigade (available in New Zealand only) 0800 764 766 (National Poisons Information Centre)

SECT	ION 2: Hazards identification	
2.1.	Classification of the substance or mixture	
	ed as Hazardous according to the Hazardous Substances (Classification) Notice 2020, New Zealand.	Dengarous Coode on

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

HSNO Classification:

- 8.3A Substances that are corrosive to ocular tissue
- 6.3A-Substances that are irritating to the skin
- 6.9A Target organ or systemic toxicant
- 9.1B Substances that are ecotoxic in the aquatic environment

Hazard statement codes:

- H318 Causes serious eye damage
- H315 Causes skin irritation
- H373 May cause damage to the brain through prolonged or repeated exposure per inhalation.
- H411 Toxic to aquatic life with long lasting effects

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
- P280 Wear protective gloves/safety goggle and face shield
- P260 Do not breathe dust/spray.



> 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 P314 - Get medical advice/attention if you feel unwell.

- P273 Avoid release to the environment

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 P310 - Immediately call a POISON CENTER or doctor

P391 - Collect spillage

Precautionary statement codes - Disposal:

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

2.2. Label elements

Hazard pictograms (CLP)

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

Signal word (CLP)

: Danger

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	>= 10 - < 12.5	HSNO Approval Code HSR003420
Manganese(II) sulfate	7785-87-7	>= 12.5 - < 15	HSNO Approval Code HSR003945
Zinc sulphate	7733-02-0	>= 3 - < 5	HSNO Approval Code HSR003279

Other ingredients not subject to the provisions of the Hazardous Substances (identification) Regulations 2020, make up the product concentration to 100%

SECTION 4: First aid measures		
4.1. Description of first aid measure	'S	
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.	



VALAGRO SDS according to to HSNO Regulations - NZ EPA Date: 17/09/2021 version number: 1.1 Product: Brexil Multi Code: 1447 Print Date: September 17, 2021 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. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 First-aid measures after eye contact 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. Symptoms/injuries after eye contact Causes serious eye irritation. Pain. redness, : May cause gastric irritation. Vomiting. stomach pain. Symptoms/injuries after ingestion Indication of any immediate medical attention and special treatment needed 4.3. Treat symptomatically. **SECTION 5: Firefighting measures Extinguishing media** 5.1. : Carbon dioxide (CO2). Water spray. Foam. Powder. Suitable extinguishing media 5.2. Special hazards arising from the substance or mixture Fire hazard Do not breathe fumes. : Explosive dust-air mixtures may form. Explosion hazard : Sulfur oxides. carbon oxides (CO and CO2). Nitrogen oxides. Metal oxides. Hazardous decomposition products in case of fire 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 27 **SECTION 6: Accidental release measures** Personal precautions, protective equipment and emergency procedures 6.1. 6.1.1. For non-emergency personnel : Do not attempt to take action without suitable protective equipment. Wear suitable Protective equipment protective clothing, gloves and eye/face protection. Emergency procedures Alert emergency personnel. Eliminate all ignition sources if safe to do so. Provide adequate ventilation. Dust production: dust mask with filter type P2. Measures in case of dust release 6.1.2. For emergency responders : Wear suitable protective clothing, gloves and eye/face protection. Avoid breathing Protective equipment 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.

3 of 11



6.3. Methods and material for co	ontainment and cleaning up
For containment Methods for cleaning up	 Stop leak if safe to do so. 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 controls/personal protection".	13 : Disposal considerations. For further information refer to section 8: "Exposure
SECTION 7: Handling and sto	rage
7.1. Precautions for safe handlin	ng
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.
ncompatible 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/m ³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0.8 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	1.4 mg/m ³	
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	B/////
PNEC (STP)	•	
PNEC sewage treatment plant	500 mg/l referred to Iron concentration	



anganese(II) sulfate (7785-87-7)	
IEL/DMEL (Workers)	
ng-term - systemic effects, dermal	0.00414 mg/kg bodyweight/day
ng-term - systemic effects, inhalation	0.2 mg/m³
EL/DMEL (General population)	
ng-term - systemic effects, inhalation	0.043 mg/m³
ng-term - systemic effects, dermal	0.0021 mg/kg bodyweight/day
IEC (Water)	
IEC aqua (freshwater)	0.0128 mg/l
IEC aqua (marine water)	0.0004 mg/l
IEC aqua (intermittent, freshwater)	0.03 mg/l
IEC (Sediment)	
IEC sediment (freshwater)	0.0114 mg/kg dwt
IEC sediment (marine water)	0.00114 mg/kg dwt
IEC (Soil)	
IEC soil	25.1 mg/kg dwt
IEC (STP)	
IEC sewage treatment plant	56 mg/l
IEC soil	

Zinc sulphate (7733-02-0)		
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 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



Environmental exposure controls: Do not allow into drains or water courses. Do not allow to enter into soil/subsoil.

0.1. Information on basic physical a	nd chemical properties
Physical state	: Solid
Appearance	: Granular solid.
Colour	: brown.
Ddour	: coffee.
Ddour threshold	: No data available
Н	: No data available
oH solution 1% (t = 20°C)	: 3,2
Relative evaporation rate (butyl acetate=1)	: not applicable, solid
Aelting point	: No data available
reezing point	: not applicable, solid
Boiling point	: not applicable, solid
lash point	: not applicable, solid
uto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
/apour pressure	: not applicable, solid
Relative vapour density at 20 °C	: not applicable, solid
Relative density	: No data available
Density Solubility	: 0,67 kg/l : Water: 300 g/l @ 20 °C
.og Pow	: No data available
/iscosity, kinematic	: not applicable, solid
/iscosity, dynamic	: not applicable, solid
xplosive properties	: Not expected to be explosive as none of the components is classified as explosive.
Dxidising properties	: None of the components are classified for oxidizing properties.
xplosive limits	: No data available



9.2. Other information		
Specific conductivity	: Not available	
SECTION 10: Stability and reac	tivity	
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reac		
10.4. Conditions to avoid	erization. May react with alkalis such as lime to generate a	ammonia vapours.
	ccumulation of airborne dusts may present an explosion ha	azard in the presence of an ignition
source. 10.5. Incompatible materials		1995
Oxidising agents. reducing agents. Strong	a acids. Strong bases.	
10.6. Hazardous decomposition pr		
During a fire: Sulfur oxides. Carbon oxide	s (CO, CO2). Nitrogen oxides (NOx). Metal oxides.	
SECTION 11: Toxicological info	ormation	
11.1. Information on toxicological	effects	
Acute toxicity	: Not classified	
Iron (II) sulfate (7720-78-7)		
LD50 dermal	> 2000 mg/kg	
Manganese(II) sulfate (7785-87-7)		
LC50 inhalation rat (mg/l)	> 4,98 mg/l Griffiths DR (2010)	
Zinc sulphate (7733-02-0)		
LD50 dermal rat	> 2000 µl/kg Van Huygevoort (1999a)	
Skin corrosion/irritation	: Irritant	
Serious eye damage/irritation	: Causes serious eye damage.	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single	: Not classified	
exposure)	: STOT cat.2	
Specific target organ toxicity (repeated exposure)		

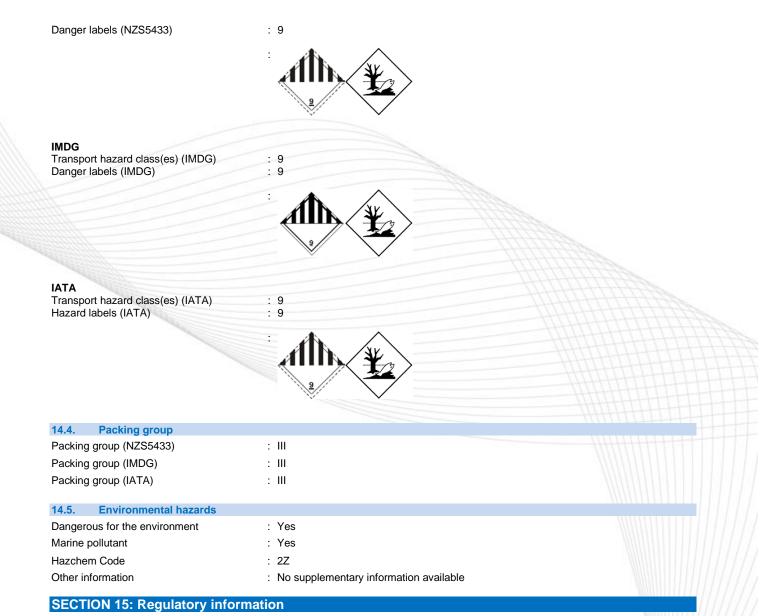
12.1. Toxicity

Brexil Multi	
LC50 fish 96h	>100mg/I (OECD 203)
IC50 Daphnia 48h	>100mg/I (OECD 202)
EyC50 72h algae	= 9.3 mg/L (OECD 201)



Brexil Multi	50.46 mg/l (OECD 204)
ErC 50 72 h	= 52.46 mg/L (OECD 201)
12.2. Persistence and degradability	
No additional information available	
2.3. Bioaccumulative potential	
Brexil Multi	
Bioaccumulative potential	Bioaccumulative potential
2.4. Mobility in soil	
Brexil Multi	
Mobility in soil	In general, the mobility in the soil of the microelements in the mixture is influenced by
	several factors such as pH, CO2 concentration, redox conditions, and availability of organic and inorganic complexing agents.
2.5. Results of PBT and vPvB asse	ssment
Brexil Multi	
Results of PBT assessment	The components in this formulation do not meet the criteria for classification as PBT or
	vPvB.
2.6. Other adverse effects	
Other adverse effects	: None known.
SECTION 13: Disposal consider	ations
3.1. Waste treatment methods	
Vaste 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 informa	tion
n accordance with IATA / IMDG / NZS 543	33:2012 Transport of Dangerous Goods on Land.
I4.1. UN number	
JN-No. (NZS5433)	: 3077
JN-No. (IMDG)	: 3077
JN-No. (IATA)	: 3077
4.2. UN proper shipping name	
Proper Shipping Name (NZS5433)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Environmentally hazardous substance, solid, n.o.s.
Transport document description	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
•	((manganese sulphate, zinc sulphate, copper sulphate)), 9, III, (E)
ransport document description (IMDG)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	((manganese sulphate, zinc sulphate, copper sulphate)), 9, III, MARINE
	POLLŪTANT/ENVIRONMENTALLY HAZARDOUS
Fransport document description (IATA)	: UN 3077 Environmentally hazardous substance, solid, n.o.s. ((manganese sulphate,
ransport document description (IATA)	
Transport document description (IATA) I4.3. Transport hazard class(es)	: UN 3077 Environmentally hazardous substance, solid, n.o.s. ((manganese sulphate,
	: UN 3077 Environmentally hazardous substance, solid, n.o.s. ((manganese sulphate, zinc sulphate, copper sulphate)), 9, III, ENVIRONMENTALLY HAZARDOUS





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



National Chemical Inventories	: All components are liste New Zealand Inventory Chemicals				
(NZIoC) HSNO Approval Number (Group Standard)					
Germany VwVwS Annex re	forence	: Water hazard class (WGK) 3, severe hazard to waters (Classification according to			
vwvw3 Annex re	leience	VwVwS, Annex 4)			
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV		: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)			
Netherlands					
SZW-lijst van kankerverwekkende stoffen		: Manganese(II) sulfate is listed			
SZW-lijst van mutagene stoffen		: Manganese(II) sulfate is listed			
NIET-limitatieve li		: None of the components are listed			
	ge stoffen – Borstvoeding				
NIET-limitatieve li		: None of the components are listed			
voortplanting giftig Vruchtbaarheid	ge stoffen -				
NIET-limitatieve li	ist van voor de	: copper sulphate is listed			
	ge stoffen – Ontwikkeling				
Denmark					
Recommendations Danish Regulation		: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product			
15.2. Chemic	cal safety assessment				

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

SECTION 16: Other information

Issue date:17/09/2021

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	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	1
NOAEC	No-Observed Adverse Effect Concentration	E/
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	-
OECD	Organisation for Economic Co-operation and Development	533
RID	Regulations concerning the International Carriage of Dangerous Goods by Rai	5.12
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.	

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
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects