

VALAGRO SDS according to to HSNO Regulations – NZ EPA
Revision date: March 26, 2020 version number: 1.0
Product: Brexil Duo
Code: 12496
Print Date: March 26, 2020

SAFETY DATA SHEET

Brexil Duo

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

1.1. Product identifier

Product form : Mixture
Trade name : Brexil Duo
Product code : 12496

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

Produced and packed by:
VALAGRO Spa
Via Cagliari, 1 Zona Industriale
66041 Atessa (CH) ITALY
Tel. (+39) 08728811 Fax (+39) 0872881382
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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

Classification according to the Hazardous Substances (Classification) Notice 2017 of the HSNO Act, 1996:

HSNO Classification:

8.3A - Substances that are corrosive to ocular tissue
9.1B - Substances that are ecotoxic in the aquatic environment (Chronic)

Hazard statement codes

H318 - Causes serious eye damage
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
P273 - Avoid release to the environment
P280 - Wear protective gloves, eye protection, face shield

Precautionary statement codes – Response:

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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 a doctor/physician

Precautionary statement codes – Disposal:

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

2.2. Label elements

1

Hazard pictograms (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. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Approval Status (NZIoC)
Calcium formate	(CAS No) 544-17-2	>= 40 - < 50	HSNO Approval Code HSR002800
Manganese(II) sulfate	(CAS No) 7785-87-7	< 1	HSNO Approval Code HSR003945
Zinc sulphate	(CAS No) 7733-02-0	< 1	HSNO Approval Code HSR003279
copper sulphate	(CAS No) 7758-98-7	< 1	HSNO Approval Code HSR003117
Other ingredients not subject to the provisions of the Hazardous Substances (identification) Regulations 2001, make up the product concentration to 100%			

Full text of H-statements: see section 16

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.

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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 or call a POISON CENTER (Ph: Australia 131 126; New Zealand 0800 764 766).

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 damage. 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

No additional information available

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO₂). Water. 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 : Carbon oxides (CO and CO₂).

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 : 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.

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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 : Strong bases. Strong acids. Oxidising agents. reducing agents.
- Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.
- Information 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).

Manganese(II) sulfate (7785-87-7)		
EU	IOELV TWA (mg/m ³)	0.2 mg/m ³ Inhalable fraction
Belgium	Limit value (mg/m ³)	0.2 mg/m ³
Bulgaria	OEL TWA (mg/m ³)	0.3 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	3 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0.5 mg/m ³
Cyprus	OEL TWA (mg/m ³)	0.5 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	1 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	2 mg/m ³
Estonia	OEL TWA (mg/m ³)	0.2 mg/m ³
Finland	HTP-arvo (8h) (mg/m ³)	0.02 mg/m ³ (inhalable dust)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	0.02 mg/m ³
Germany	TRGS 900 Limitation of exposure peaks (mg/m ³)	1 mg/m ³
Greece	OEL TWA (mg/m ³)	5 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	0.2 mg/m ³
Lithuania	IPRV (mg/m ³)	1 mg/m ³ Inhalable fraction
Lithuania	TPRV (mg/m ³)	0.5 mg/m ³ E: respirable fraction
Poland	NDS (mg/m ³)	0.2 mg/m ³ Inhalable fraction
Portugal	OEL TWA (mg/m ³)	0.2 mg/m ³
Slovakia	NPHV (priemerná) (mg/m ³)	0.5 mg/m ³

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Slovenia	OEL TWA (mg/m ³)	0.5 mg/m ³
Spain	VLA-ED (mg/m ³)	0.2 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	0.1 mg/m ³ respirable dust
USA - ACGIH	ACGIH TWA (mg/m ³)	0.1 mg/m ³
USA - ACGIH	ACGIH STEL (mg/m ³)	0.02 mg/m ³

copper sulphate (7758-98-7)		
Austria	MAK (mg/m ³)	1 mg/m ³
Austria	MAK Short time value (mg/m ³)	4 mg/m ³
Finland	OEL Ceiling (mg/m ³)	1 mg/m ³
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0.1 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	1 mg/m ³
Switzerland	VME (mg/m ³)	0.1 mg/m ³
Switzerland	VLE (mg/m ³)	0.2 mg/m ³

Calcium formate- (544-17-2)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	4780 mg/kg bodyweight/day
Acute - systemic effects, inhalation	337 mg/m ³
Acute - local effects, dermal	16.7
Long-term - systemic effects, dermal	4780 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	337 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	2390 mg/kg bodyweight
Acute - systemic effects, inhalation	83.2 mg/m ³
Acute - systemic effects, oral	23.9 mg/kg bodyweight
Acute - local effects, dermal	8.3 mg/cm ²
Long-term - systemic effects, inhalation	83.2 mg/m ³
Long-term - systemic effects, dermal	2390 mg/kg bodyweight/day
Long-term - local effects, dermal	8.3 mg/cm ²
PNEC (Water)	
PNEC aqua (freshwater)	2 mg/l
PNEC aqua (marine water)	0.2 mg/l
PNEC aqua (intermittent, freshwater)	10 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	13.4 mg/kg dwt
PNEC sediment (marine water)	1.34 mg/kg dwt

Manganese(II) sulfate (7785-87-7)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.00414 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.2 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	0.043 mg/m ³
Long-term - systemic effects, dermal	0.0021 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.0128 mg/l
PNEC aqua (marine water)	0.0004 mg/l
PNEC aqua (intermittent, freshwater)	0.03 mg/l

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Manganese(II) sulfate (7785-87-7)	
PNEC (Sediment)	
PNEC sediment (freshwater)	0.0114 mg/kg dwt
PNEC sediment (marine water)	0.00114 mg/kg dwt
PNEC (Soil)	
PNEC soil	25.1 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	56 mg/l

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

copper sulphate (7758-98-7)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	137 mg/kg bodyweight/day
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.041 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.0078 mg/l
PNEC aqua (marine water)	0.0052 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	87 mg/kg dwt
PNEC sediment (marine water)	676 mg/kg dwt
PNEC (Soil)	
PNEC soil	65 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.23 mg/l

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8.2. Exposure controls

Appropriate engineering controls:

Provide adequate ventilation.

Personal protective equipment:

Safety glasses. Gloves. Protective clothing. Dust production: dust mask with filter type P2.

Materials for protective clothing:

Rubbers. PVC (Polyvinyl chloride). Natural fibres (e.g. cotton)

Hand protection:

Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Protective gloves made of rubber or PVC. Break through time: ≥ 480 min. Thickness of glove material: 0.7 mm

Eye protection:

Wear eye glasses with side protection according to EN 166

Skin and body protection:

Chemical resistant protective apron/clothing (tested to EN 14605 or equivalent)

Respiratory protection:

Wear a respirator conforming to EN140 with Type A/P2 filter or better. particle filter device (DIN EN 143)



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 solution	: 7.4 1% (t = 20°C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
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

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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	: 0.7 kg/l
Solubility	: Water: 1 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	: None of the components is classified for oxidizing properties.
Explosive limits	: No data available

9.2. Other information

No additional information available

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.

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

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

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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)

Calcium formate- (544-17-2)	
LD50 oral rat	3050 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
LC50 inhalation rat (mg/l)	0.67 mg/l/4h (EPA OTS 798.1150)

Skin corrosion/irritation : Not classified (Conclusive but not sufficient for classification)
 Additional information : (OECD 439)
 Serious eye damage/irritation : Causes serious eye damage.
 Additional information : (OECD 437 method)
 Respiratory or skin sensitisation : Not classified
 Germ cell mutagenicity : Not classified
 Carcinogenicity : Not classified

Calcium formate- (544-17-2)	
NOAEL (chronic, oral, animal/male, 2 years)	2000 mg/kg bodyweight (OECD 453 method)

Reproductive toxicity : Not classified
 STOT-single exposure : Not classified
 STOT-repeated exposure : Not classified

Calcium formate- (544-17-2)	
NOAEL (oral, rat, 90 days)	3000 mg/kg bodyweight/day (OECD 408 method)
NOAEL (subacute, oral, animal/male, 28 days)	1000 mg/kg bodyweight (OECD 407 method)

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

BREXIL DUO	
LC50 fish 1	> 100 mg/l Zebra fish 96h (OECD 203)
EC50 Daphnia 1	18.37 mg/l Daphnia Magna 48h (OECD 202)
EC50 72h Algae [mg/l] (1)	12.5 mg/l Green Algae 72h (OECD 201)
LOEC (acute)	6.3 mg/l Green Algae 72h (OECD 201)
NOEC (acute)	3.6 Green Algae 72h (OECD 201)

Manganese(II) sulfate (7785-87-7)	
NOEC chronic crustacea	5700 ng/l (3 week - Daphnia magna - Biesinger KE & Christensen GM (1994))

Calcium formate- (544-17-2)	
EC50 Daphnia 1	> 1000 mg/l
EC50 other aquatic organisms 1	> 1000 mg/l (bacterium)
EC50 other aquatic organisms 2	> 1000 mg/l 72h, (Pseudokirchnerella subcapitata)

12.2. Persistence and degradability

No additional information available

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12.3. Bioaccumulative potential

BREXIL DUO	
Bioaccumulative potential	Product does not contain any bioaccumulative substance.

Calcium formate- (544-17-2)	
Log Pow	-2.6 (OECD 107)

12.4. Mobility in soil

BREXIL DUO	
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.

12.5. Results of PBT and vPvB assessment

BREXIL DUO	
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	
Results of PBT assessment	The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Component	
Calcium formate- (544-17-2)	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

12.6. 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 / IATA / IMDG / RID / AND / NZS 5433:2012 Transport of Dangerous Goods on Land

ADR / RID	IMDG	IATA	ADN	NZS5433:2012
14.1. UN number				
3077	3077	3077	3077	3077
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.	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)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((manganese sulphate, zinc sulphate, copper sulphate)), 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s. ((manganese sulphate, zinc sulphate, copper sulphate)), 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((manganese sulphate, zinc sulphate, copper sulphate)), 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((manganese sulphate, zinc sulphate, copper sulphate)), 9, III






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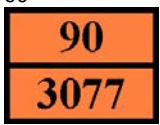
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ADR / RID	IMDG	IATA	ADN	NZS5433:2012
14.3. Transport hazard class(es)				
9	9	9	9	9
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
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
- 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
- Hazchem 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
- MFAG-No : 171

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- 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.

- 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**

VALAGRO SDS according to to HSNO Regulations – NZ EPA

Revision date: March 26, 2020 version number: 1.0

Product: Brexil Duo

Code: 12496

Print Date: March 26, 2020

Classification: : Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

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

Germany

VwVwS Annex reference : Water hazard class (WGK) 2, hazard to waters (Classification according to 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 lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : copper sulphate is listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

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
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 Rail
	PVC (Polyvinyl chloride).

VALAGRO SDS according to to HSNO Regulations – NZ EPA

Revision date: March 26, 2020 version number: 1.0

Product: Brexil Duo

Code: 12496

Print Date: March 26, 2020

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.

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
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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Eye Dam. 1	H318	Calculation method
Aquatic Chronic 2	H411	Calculation method

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