

VALAGRO Safety data Sheet  
Date: June 09, 2020 Rev. 1.0  
Product: Master 20-20-20  
Code: 11360  
Print Date: June 9, 2020

## SAFETY DATA SHEET

### Master 20-20-20

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

1.1. Product identifier

Mixture identification:

Trade name: Master 20-20-20

Trade code: 11360

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

Recommended use:

Fertilizer

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

Recommended use:

Fertilizer

1.3. Details of the supplier of the safety 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](mailto: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)

#### 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:

The product is classified as non hazardous according to the Hazardous Substances (Classification) Notice 2017 of the HSNO Act, 1996

Classification according to Regulation (EC) No 1272/2008:

The product is not classified as hazardous

2.2. Label elements

None

2.3. Other hazards

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vPvB Substances: None - PBT Substances: None  
 Other Hazards:  
 No other hazards


### SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 0.1% - < 0.25%	boric acid	Index 005-007-00-2 number: CAS: 10043-35-3 EC: 233-139-2	 3.7/1B Repr. 1B H360FD

SVHC Substances:

>= 0.1% - < 0.25% boric acid

Index number: 005-007-00-2, CAS: 10043-35-3, EC: 233-139-2

Substance SVHC

Specific concentration limits:

Repr.1B; H360FD: C ≥5,5 %

For full text of H-statements: see SECTION 16

### SECTION 4: First aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly (shower or bath).

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time.

Get medical attention if irritation persists.

In case of Ingestion:

Never give anything by mouth to an unconscious person

Rinse mouth with water and if the person is conscious give plenty of water to drink .

Do not under any circumstances induce vomiting. Get medical attention.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Inhalation:

Possible irritation of respiratory tract

Skin:

Possible irritation according to the contact time with the product

Eye:

Possible irritation according to the contact time with the product

Ingestion:

Possible irritation of mouth and digestive tract.

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

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Treatment:

N.A.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces smoke containing nitrogen oxides, phosphorus oxides, sulphur oxides.

Can cause the ignition of combustible substances even in the absence of air.

### 5.3. Advice for firefighters

Use suitable breathing apparatus.

Avoid dust generation

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training

Wear protective clothes giving a total skin protection, gloves and safety glasses.

Keep away from the affected area people not involved in the emergency intervention.

Ensure adequate ventilation.

Alert the internal emergency team.

For emergency responders:

Wear protective clothes giving a total skin protection, PVC gloves and safety glasses.

See protective measures under point 7 and 8.

Remove people to safety.

### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Dilute with water and retain contaminated wash water and dispose in authorized facilities or pick up in clean plastic labeled containers and reuse as fertilizer.

In case of seepage into waterways, soil or sewage system inform authorities responsible.

Material suitable for collecting: inert absorbent material, sand

Avoid organic materials and combustible substances (such as sawdust)

### 6.3. Methods and material for containment and cleaning up

Wash with plenty of water. Contain leaks with inert absorbent material

### 6.4. Reference to other sections

See also section 8 and 13

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Avoid dust generation and Keep away from sources of ignition

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Avoid contamination from any source of metals, dust and organic materials

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original containers tightly closed in a well-ventilated place far from humidity, heat and ignition sources. Avoid exposure to direct sunlight

Keep away from food, drink and feed and from combustible materials.

Incompatible materials:

Oxidizing and reducing agents, acids, bases, combustible materials

Instructions as regards storage premises:

Adequately ventilated, cool and dry premises.

7.3. Specific end use(s)

None in particular

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## SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available for the mixture.

Boric acid - CAS: 10043-35-3

ACGIH - TWA(8h): 2 mg/m<sup>3</sup> - STEL: 6 mg/m<sup>3</sup> - Notes: (I), A4 - URT irr

DNEL Exposure Limit Values

boric acid - CAS: 10043-35-3

Worker Professional: 8.3 val.03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 392 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 0.98 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 4.15 val.03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 196 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

boric acid - CAS: 10043-35-3

Target: Marine water - Value: 2.9 mg/l - Notes: (Boron)

Target: Fresh Water - Value: 2.9 mg/l - Notes: (Boron)

Target: Intermittent release - Value: 13.7 mg/l - Notes: (Boron)

Target: Soil (agricultural) - Value: 5.7 mg/kg - Notes: (Boron)

Target: Sewage treatment plants - Value: 10 mg/l - Notes: (Boron)

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles according to the standard EN 166, don't use eye lens

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. nitrile according to EN 374

Respiratory protection:

No need for normal use.

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In case of dust generation, use anti-powder mask with P2 (FFP2) filters according to the EN 149:2001

The powder exposition limit must be respected.

Thermal Hazards:

None Known

Environmental exposure controls:

None

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## SECTION 9: Physical and chemical properties

Appearance:	Blu crystals
Odour:	Characteristic
Odour threshold:	N.A.
pH 1 % a 20°C:	5.1
Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	N.A.
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Apparent density:	0.77 Kg/dm <sup>3</sup>
Solubility in water a 20°C:	550 g/l
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.

### 9.2. Other information

Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use and storage

### 10.2. Chemical stability

Stable under normal conditions of use and storage

### 10.3. Possibility of hazardous reactions

At high temperatures, which induce thermal decomposition, the product may release hazardous gases

### 10.4. Conditions to avoid

Stable under normal conditions.

Avoid high temperatures that induce thermal decomposition

Avoid dust generation. Dusts at sufficient concentrations can form explosive mixtures with air

Avoid any accumulation of electrostatic charge

The product can cause the ignition of combustible substances even in the absence of air.

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10.5. Incompatible materials

Oxidizing and reducing agents, acids, bases, combustible materials

10.6. Hazardous decomposition products

In case of fire and high temperatures can develop nitrogen oxides, phosphorus oxides, sulphur oxides

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**SECTION 11: Toxicological information**

11.1. Information on toxicological effects

Toxicological information of the product:

In case of ingestion of large amounts, NO<sub>3</sub>-ions contained in the product can oxidize the iron atoms in hemoglobin making it unable to carry oxygen effectively to the tissues (methemoglobinemia)

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

boric acid - CAS: 10043-35-3

a) acute toxicity:

Test: LD<sub>50</sub> - Route: Oral - Species: Rat > 2600 mg/kg - Source: OECD 401 - Notes: Test material: Boric acid - Based on available data, the classification criteria are not met

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Test: LC50 - Route: Inhalation - Species: Rat > 2.03 mg/l - Source: OECD 403 - Notes:  
Test material: Boric acid - Based on available data, the classification criteria are not met  
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Source: FIFRA (40 CFR 163) -  
Notes: Test material: Boric acid - Based on available data, the classification criteria are not met

b) skin corrosion/irritation:

Test: Skin Corrosive - Route: Skin - Species: Rabbit - Notes: Test material: Boric acid -  
Based on available data, the classification criteria are not met

c) serious eye damage/irritation:

Test: Eye Corrosive - Route: 18202.val1 - Species: Rabbit - Source: OECD 405 - Notes:  
Test material: Boric acid - Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Oral - Species: Guinea pig - Source: OECD 406 - Notes:  
Test material: Boric acid - Based on available data, the classification criteria are not met

e) germ cell mutagenicity:

Test: Mutagenesis - Source: Ames test OECD 471 - Notes: Test material: Boric acid -  
Based on calculation method, the classification criteria are not met

f) carcinogenicity:

Test: Carcinogenicity - Route: Oral - Species: Mouse - Source: OECD 451 - Notes: Test  
material: Boric acid - Based on available data, the classification criteria are not met

g) reproductive toxicity:

Test: Reproductive Toxicity - Route: Oral - Species: Rat = 58.5 mg/kg - Source: (Boron) -  
Notes: Test material: Borax deca hydrate; Classification as Repr 1B H360FD

h) STOT-single exposure:

Based on available data, the classification criteria are not met

i) STOT-repeated exposure:

Based on available data, the classification criteria are not met

j) aspiration hazard:

Based on available data, the classification criteria are not met

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## SECTION 12: Ecological information

### 12.1. Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.  
boric acid - CAS: 10043-35-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 79.9 mg/l - Duration h: 96 - Notes: (Boron)

Endpoint: LC50 - Species: Daphnia = 133 mg/l - Duration h: 48 - Notes: (Boron)

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 11.2 mg/l - Duration h: 768 - Notes: (Boron)

Endpoint: NOEC - Species: Daphnia = 25.9 mg/l - Duration h: 48 - Notes: (Boron)

c) Bacteria toxicity:

Endpoint: NOEC - Species: Microorganisms = 17.5 mg/l - Duration h: 3 - Notes: (Boron)

e) Plant toxicity:

Endpoint: EC50 - Species: Algae = 40 mg/l - Duration h: 72 - Notes: (Boron)

### 12.2. Persistence and degradability:

No data available for the mixture;

### 12.3. Bioaccumulative potential

The product does not contain any bioaccumulative substances

### 12.4. Mobility in soil

No data available for the mixture;

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- 12.5. Other adverse effects (such as hazardous to the ozone layer).  
None known

### SECTION 13: Disposal considerations

- 13.1. Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:
- Product :Recover if possible. In so doing, comply with the local and national regulations currently in force.
  - Packaging: Dispose according to regulations.

### SECTION 14: Transport information

- 14.1. UN number  
Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name  
N.A.
- 14.3. Transport hazard class(es)  
N.A.
- 14.4. Packing group  
N.A.
- 14.5. Environmental hazards  
ADR-Enviromental Pollutant: No  
IMDG-Marine pollutant: No
- 14.6. Special precautions for user  
N.A.
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
N.A.

### SECTION 15: Regulatory information

- 15.1.1. EU-Regulations  
Contains no REACH substances with Annex XVII restrictions

- 15.1.2. National regulations

#### New Zealand

- Classification : Classified as non-hazardous according to HSNO Act 1996;  
Hazardous Substances (Classification) Notice 2017.
- National Chemical Inventory (NZIoC) : All components listed

### SECTION 16: Other information

Full text of H- and EUH-statements:	
Repr. 1B	Reproductive toxicity, Category 1B
H360FD	May damage fertility. May damage the unborn child.

This document was prepared by a competent person who has received appropriate training.



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The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

N.A. no data available

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

WGK: German Water Hazard Class.