


Cropmaster Brassica + Boron

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	Cropmaster Brassica + Boron
Product Code:	N/A
Recommended Use:	Agricultural Fertiliser
Restrictions of Use:	Refer to Section 15
Company Identification:	Ravensdown Limited
Address:	292 Main South Road, Hornby, Christchurch, 8042 PO Box 1049, Christchurch 8011
Customer Centre:	0800 100 123
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Phone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency Phone Number:	111 - tell operator what service is needed: Fire, Ambulance or Police
Date of SDS Preparation	10 October 2022

Section 2: HAZARD IDENTIFICATION

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No:	Fertilisers (subsidiary) – HSR002571
Pictograms:	
Signal Word:	DANGER

GHS Classification and Category	Hazard Code	Hazard Statement
Skin irritation Cat. 2	H315	Causes skin irritation.
Eye irritation Cat. 2	H319	Causes serious eye irritation.
specific target organ toxicity – single exposure Cat. 3 respiratory tract irritation	H335	May cause respiratory irritation.
Reproductive toxicity Cat. 1	H360	May damage fertility or the unborn child.

Prevention Code	Prevention Statement
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective clothing as detailed in Section 8.
P281	Use personal protective equipment as required.

Response Code	Response Statement
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P362	Take off contaminated clothing and wash before re-use.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT %
Diammonium hydrogen phosphate	7783-28-0	70-75
KCl	7447-40-7	10-20
Borate	92908-33-3	1-5

Section 4: FIRST AID MEASURES

Routes of Exposure:	
If in eyes:	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
If on skin:	Take off contaminated clothing and wash before re-use. Wash skin with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention.
If ingested:	Rinse mouth. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.
If inhaled:	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.
Most important symptoms and effects, both acute and delayed	
Symptoms:	
Eyes:	Causes serious eye irritation.
Skin:	Causes skin irritation.
Ingested:	Not applicable
Inhaled:	May cause respiratory irritation.
Chronic:	May damage fertility or the unborn child.
Advice to Doctor:	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Hazard Type	Not flammable or combustible.
Hazards from combustion products	May evolve ammonia, phosphorous and nitrogen oxides when heated to decomposition. Potassium oxide, boron oxide, possible toxic fumes
Suitable Extinguishing media	Use media suitable for surrounding materials.
Precautions for firefighters and special protective clothing	Wear full protective gear.

HAZCHEM CODE	None allocated
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Section 6: ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Wear appropriate protective clothing as detailed in Section 8. Exclude non-essential people from the area. If possible, avoid contact with eyes and skin. Avoid generation of dusts, do not inhale.
Environmental precautions:
Avoid from entering drains, waterways or sewers.
Methods and material for containment and cleaning up:
Scrape up the product with a shovel and put it in a container which can always be used if the product is not contaminated Forward for disposal. Avoid generating dust. Clean up affected area with plenty of water. Dispose as per Section 13.

Section 7: HANDLING AND STORAGE

Handling:	<p>Read label before use.</p> <p>Obtain special instructions before use.</p> <p>Do not handle until all safety precautions have been read and understood.</p> <p>Wash hands thoroughly after handling.</p> <p>Use only outdoors or in a well-ventilated area.</p> <p>Wear protective clothing as detailed in Section 8.</p> <p>Use personal protective equipment as required.</p> <p>Avoid generating dusts, do not breathe dusts.</p> <p>Avoid contact with skin and eyes.</p> <p>Avoid unintended release into the environment.</p>
Storage:	<p>Store away from incompatible materials listed in Section 10.</p> <p>Store in a cool, dry area, well ventilated area.</p> <p>Store locked up.</p> <p>Keep container tightly closed.</p>


Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Particulates not otherwise classified:	Inspirable dust		10mg.m ⁻³		
	Respirable dust		3mg.m ⁻³		
Boron			1mg.m ⁻³		

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices April 2022 13TH EDITION.

Engineering Controls:	Ensure ventilation is adequate of work place. Minimise generation of airborne dust.
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Personal Protection Equipment:	
	
Eyes:	Wear close fitting safety glasses or goggles to prevent dust getting in eyes.
Skin/Hands:	Wear protective clothing and gloves where there is a risk of moderate to high skin contamination from product.
Respiratory:	Wear particulate respirator where there is a risk of breathing in moderate to high levels of airborne dust.

General:	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work.
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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Granular blend
Colour	Cream granules with a red chip
Odour	Not available
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	Not available
Water Solubility	Not available
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Granulometrics (mm)	Not available

Section 10: STABILITY AND REACTIVITY

Stability of Substance	Stable under normal conditions.
Possibility of hazardous reactions	Not data available.
Conditions to Avoid	None when applied and handled in accordance with conditions for use.
Incompatible Materials	None known.
Hazardous Decomposition Products	No data available.

Section 11: TOXICOLOGICAL INFORMATION

Acute Effects:

Swallowed	Not applicable. Ingestion of large quantities. May lead to nausea, vomiting and gastrointestinal irritation.
Dermal	Not applicable
Inhalation	May cause respiratory irritation.
Eye	Causes serious eye irritation.
Skin	Causes skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable
Reproductive Toxicity	May damage fertility or the unborn child.
Germ Cell Mutagenicity	Not applicable
Aspiration	Not applicable
STOT/SE	Not applicable
STOT/RE	Not applicable

Section 12: ECOLOGICAL INFORMATION

Not known to be harmful to the environment.

Persistence and degradability	No data available.
Bioaccumulation	No data available
Mobility in Soil	No data available.
Other adverse effects	No data available

Section 13: DISPOSAL INFORMATION

Disposal Method:	Reuse or recycle where possible. If practicable apply excess fertiliser at recommended rates to appropriate land. Collection into sealable containers and dispose of in an approved land fill. Observe any local authority restrictions that may apply.
	Rinse containers thoroughly prior to reuse. Otherwise render unusable and dispose of as waste.
Precautions or methods to avoid:	Do not allow to enter waterways.

Section 14: TRANSPORT INFORMATION

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020

Section 15: REGULATORY INFORMATION

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code:	Fertilisers (subsidiary) – HSR002571
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HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	Not required
Emergency Response Plan (Schedule 5)	10 000kg
Secondary Containment (Schedule 5)	10 000kg
Tracking (Schedule 26)	Not required
Certified Handlers	Not required
Location Certificate	Not required
Restrictions of use	None known.

Section 16: OTHER INFORMATION

Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).

4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact Ravensdown, if further information is required.

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