

1. IDENTIFICATION

Product Identifier: **DeltaMicro Combi 2**

Other Means of Identification: None

Recommended Use of the Chemical: Fertilizer

Details of Manufacturer or Importer:
 Importer :
 AgNova Technologies Pty Ltd
 Suite 3/935 Station Street
 Box Hill North Vic 3129
 Australia
 (03) 9899 8100
 www.agnova.com.au

Manufacturer:
 DeltaChem GmbH
 Gildenstrasse 36
 48157 Münster -Germany
 Detlef.koechling@deltachem.de

Emergency Phone Number: 1800 033 111 (24 hrs)

2. HAZARD(S) IDENTIFICATION

Classification of the Hazardous Chemical according to GHS/WHS:

Signal Word: Danger

Pictogram:



GHS Classification: Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
Hazard Categories: Toxic to Reproduction - Category 1B

Hazard Statements: H360FD May damage fertility. May damage the unborn child.

Precautionary Statements:
Prevention P201 Obtain special instructions before use.
 P281 Use personal protective equipment as required.
Response P308 + P313 IF exposed or concerned: Get medical advice/attention.

Storage Disposal P405 Store locked up.
 P501 Dispose of contents/container in accordance with local / regional / national / international regulations.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients	CAS Number	HCIS Classification	%
disodium[[[N,N'-ethylenebis[N-(carboxymethyl)glycinato]] (4-)-N,N',O,O',ON,ON']cuprate(2-)	14025-15-1	-	< 10
boric acid	10043-35-3	Reproductive toxicity – category 1B; H360FD (May damage fertility. May damage the unborn child)	> 5.5

4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Phone 13 11 26), and follow the advice given. Show this Safety Data Sheet to a doctor.

Description of Necessary First Aid Measures:

Ingestion: Rinse mouth thoroughly with water.

Inhalation: Move victim to fresh air.

Skin contact: Wash with plenty of water and soap.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation, consult an ophthalmologist.

First Aid Facilities: Provide washing facilities in the workplace.

Medical Attention and Special Treatment: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray. Dry powder. Foam. Use extinguishing media appropriate for surrounding fire.



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Unsuitable Extinguishing Media:	Strong water jet
Specific Hazards Arising from the Chemical:	Hazardous decomposition products in case of fire: Toxic fumes may be released. Carbon monoxide. Carbon dioxide. Nitrogen oxides.
Special Protective Equipment and Precautions for Fire Fighters:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information:	Do not allow run- off from fire fighting to enter drains or water courses. Disposal must be done according to local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	Provide adequate ventilation. Personal protection equipment: refer to section 8. Only qualified personnel equipped with suitable protective equipment may intervene.
Environmental Precautions:	Notify authorities if product enters sewers or public waters. Prevent entry to sewers and public waters.
Methods and Materials for Containment and Cleaning Up:	Notify authorities if product enters sewers or public waters. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Disposal must be done according to official regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid dust formation. Do not breathe dust.
Conditions for Safe Storage, including any	Store locked up. Store in a well-ventilated place. Keep cool. Product must only be kept in the original packaging.



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Incompatibilities: Keep away from food, drink and animal feeding stuffs.

Specific end use(s): No additional information available

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards: No specific exposure standards are available for both the chemicals of this product. For dusts from solid substances without specific occupational exposure standards:
Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m³ (measured as inhalable dust).

Biological Monitoring: No information available

Control Banding: Not specified

Engineering Controls: Provide local exhaust or general room ventilation.

Individual Protection: When using, do not eat, drink or smoke.
Respiratory Protection:

Measures e.g. Personal Protective Equipment (PPE): No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. Where excessive dust may result, wear approved mask.
Skin Protection:
In case of repeated or prolonged contact wear gloves. If skin contact or contamination of clothing is likely, protective clothing should be worn.
Dermal Protection: Protective clothing (long sleeved overall) and chemically resistant gloves (Nitrile rubber, chloroprene rubber, butyl rubber or other suitable gloves, complying with local requirements).
Eye and Face Protection:
Where excessive dust may result, wear goggles.
Thermal Hazards:
Thermal decomposition generates toxic vapours. Wear appropriate PPE.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Granulate
Physical State: Solid
Colour: Green
Odour: Odourless
pH solution: 3.5 - 5.5 (1% solution)
Vapour Pressure: No data available
Boiling Point: Not available
Melting Point: Not available

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Freezing Point:	Not applicable
Solubility:	Water soluble
Density (20°C):	No data available
Bulk Density:	0.65 - 0.95 g/cm ³
Flash Point:	Not applicable
Auto-Ignition Temperature:	No data available
Decomposition Temperature:	No data available
Relative evaporation rate (butylacetate=1)L	No data available
Flammability:	Not flammable
Vapour Pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	No data available
Log Pow:	No data available
Viscosity (20°C):	Not applicable
Explosive Properties:	Not explosive
Oxidising Properties:	Not oxidising

10. STABILITY AND REACTIVITY

Reactivity:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	No dangerous reactions known under normal conditions of use.
Conditions to Avoid:	All heat sources, including direct sunlight. Ignition sources.
Incompatible Materials:	No additional information available.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Ingredient:

(1) Disodium[[N,N'-ethylenebis[N-(carboxymethyl)glycinato]] (4)-N,N',O,O',ON,ON']cuprate(2-) (CAS: 14025-15-1):

LD50 oral rat: 890 mg/kg (female/male)

LD50 dermal rat: > 2000 mg/kg bodyweight ((OECD 402 method);

LC50 inhalation rat (Dust/Mist - mg/l/4h): > 5.32 mg/l/4h (OECD 436 method)

ATE CLP (oral): 8900 mg/kg

(2) Boric acid (CAS: 10043-35-3):

NOAEL (chronic, oral, animal/male, 2 years): > 5000 ppm (103 weeks;(OECD 451 method))

LOAEL (animal/male, F0/P): LOAEL (animal/male, F0/P)

LOAEL (animal/male, F1): 58.5 mg/kg bodyweight/day

LOAEL (animal/female, F1): 58.8 mg/kg bodyweight/day

NOAEL (animal/male, F0/P) 17.5 mg/kg bodyweight/day

NOAEL (animal/male, F1): 17.5 mg/kg bodyweight

Product Information on toxicological effects

Acute Toxicity (oral): Not classified (Based on available data, the classification criteria are not met)

Acute Toxicity (dermal): Not classified (Based on available data, the classification criteria are not met)

Acute Toxicity (inhalation): Not classified (Based on available data, the classification criteria are not met)

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Skin Corrosion/ Irritation: Not classified (Based on available data, the classification criteria are not met)

Serious Eye Damage/ Irritation: Not classified (Based on available data, the classification criteria are not met)

Respiratory or Skin Sensitisation: Not classified (Based on available data, the classification criteria are not met)

Germ Cell Mutagenicity: Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity Not classified (Based on available data, the classification criteria are not met)

Reproductive Toxicity: May damage fertility. May damage the unborn child.

Specific Target Organ Toxicity (STOT) – single exposure: Not classified (Based on available data, the classification criteria are not met)

Specific Target Organ Toxicity (STOT) – repeated exposure: Not classified (Based on available data, the classification criteria are not met)

Aspiration Hazard: Not classified (Not relevant)

Information on Likely Routes of Exposure:
No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure:
No data available

12. ECOLOGICAL INFORMATION

Acute and Chronic Toxicity: Not classified (Based on available data, the classification criteria are not met)



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Persistence and Degradability: No additional information available

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal Containers and Methods:

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according local requirements.

Dispose of contents/container in accordance with local/regional/national/international regulations.

14. TRANSPORT INFORMATION

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail 7th Edition

UN Number: Not applicable

Proper Shipping Name or Technical Name: Not applicable

Transport Hazard Class: Not applicable

Packing Group: Not applicable

Environmental Hazards for Transport Purposes: Not applicable

Special Precautions for User: Not applicable

Additional Information: Not applicable

Hazchem Code: Not applicable



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15. REGULATORY INFORMATION

APVMA Registration not required

SUSMP Boric acid (S5)

Australian Inventory of Chemical Substances (AICS) All components listed

Toxic Substance controls – NZ All components are approved hazardous substances with controls

16. OTHER INFORMATION

Abbreviations and Acronyms: APVMA – Australian Pesticides and Veterinary Medicines Authority
CLP – Classification, Labelling and Packaging
GHS – Globally Harmonized System of Classification and Labelling of Chemicals
SUSMP – Standard for the Uniform Scheduling of Medicines and Poisons

Date of Preparation or Revision: May 2019.

Reason for Revision: To comply with WHS regulations.

Data Sources: Manufacturer product safety data and published data

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

Since the use of this information and of these opinions and the conditions of use of this product are not within the control of AgNova Technologies Pty Ltd or DeltaChem GmbH, it is the user's obligation to determine the conditions of safe use of the product.

END OF SDS