

Product Name: Kocide[®] Blue Xtra Fungicide

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Section 1 – Identification of the Material and Supplier

Multicrop (Aust) Pty Ltd

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Trade Names: Multicrop Kocide[®] Blue Xtra Fungicide.

Types: Cu 35%

Product Code: 91315

Product Use: Fungicide.

Section 2 – Hazards Identification

Statement of Hazardous Nature

Hazardous classification:

Not regulated as a hazardous material by IATA.
Optional classification as per IATA Special Provision A97.
Classified as dangerous goods according to the ADG Code.
Classified as hazardous according to criteria of NOHSC.

Potential Health Effects

Inhalation: Harmful by inhalation.

Swallowed: Harmful if swallowed.

Eyes: Irritating to eyes.

Safety Data: Do not breathe dust.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable protective clothing, gloves and eye/face protection.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Avoid release to the environment. Refer to special instructions/Safety data sheets.

Section 3 – Composition/Information on Ingredients

Synonyms: B11486799

Chemical Name	CAS No	Concentration
Copper dihydroxide	20427-59-2	53.8%
Inert Ingredients		46.2%

MATERIAL SAFETY DATA SHEET

Issued by: Multicrop (Aust) Pty Ltd

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Poisons Information Centre: 13 1126 from any where in Australia (0800 764 766 in New Zealand)

THIS MSDS SUMMARISES TO OUR BEST KNOWLEDGE AS AT THE ISSUE DATE THE CHEMICAL HEALTH AND SAFETY HAZARD OF MATERIAL AND GENERAL GUIDANCE ON HOW TO SAFELY HANDLE THE MATERIAL. MULTICROP(AUST) PTY LTD CANNOT CONTROL OR ANTICIPATE THE CONDITION AND ENVIRONMENT UNDER WHICH THE PRODUCT IS USED OR STORED, EACH USER MUST, PRIOR TO USE, UNDERSTAND ANY RISK ARISING FROM USE OF THE MATERIAL IN THE COMPOSITION OF THIS PRODUCT.

Section 4 – First Aid Measures

General advice:	If poisoning occurs, contact a doctor or Poisons Information Centre. In Australia 131126.
Inhalation:	Remove person to fresh air. If signs/symptoms continue, get medical attention. Artificial respiration and/or oxygen may be necessary.
Skin Contact:	Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison information centre or doctor for treatment advice.
Eye Contact:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison information centre or doctor for treatment advice.
Ingestion:	Have person sip a glass of water if unable to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control centre. Never give anything by mouth to an unconscious person. Call a poison information centre or doctor for treatment advice.
Notes to physician Risks:	Probable mucosal damage may contraindicate the use of gastric lavage.
Treatment:	Treat symptomatically.

Section 5 – Fire Fighting Measures

Suitable extinguishing media:	Water spray, Dry chemical, Foam, Carbon dioxide (CO ₂).
Extinguishing media which shall not be used for safety reasons:	High volume water jet (contamination risk).
Special protective:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Further information:	Evacuate personnel and keep upwind of fire. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not allow run-off from fire fighting to enter drains or water courses. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated.

Section 6 – Accidental Release Measures

Personal precautions:	Review sections 5 and 7 before proceeding with clean-up. Use personal protective equipment.
Environmental precautions:	Prevent material from entering sewers, waterways, or low areas.

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Methods for cleaning up:	Clean-up methods – Large spillage. Prevent further leakage or spillage. Use approved industrial vacuum cleaner for removal. Shovel into suitable container for disposal. Clean-up methods – Small spillage. Sweep up or vacuum up spillage and collect in suitable container for disposal.
Additional advice:	Dispose of in accordance with local regulations.

Section 7 – Handling & Storage

Handling

Advice on safe handling: Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

Advice on protection against fire and explosion:

Keep away from heat and sources of ignition. Avoid dust formation in confined areas. During processing, dust may form explosive mixture in air.

Storage

Requirements for storage areas and containers:

Store in original container. Store in a cool, dry, well-ventilated area. Keep away from direct sunlight. Keep out of the reach of children.

Storage temperature:

<35°C

Other data:

Stable under recommended storage conditions.

Section 8 – Exposure Control & Personal Protection

Occupational Exposure Limits

No information available.

Engineering measures:

Use only with adequate ventilation.

Personal protective equipment

Respiratory protection: None specified.

Hand protection: None specified.

Eye protection: None specified.

Skin and body protection: None specified.

Hygiene measures:

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Do not breathe dust.

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Section 9 – Physical & Chemical Properties

Form:	Solid, granular.
Colour:	Blue.
Odour:	None.
pH:	8.6.
Flash point:	Not applicable.
Density:	1.0417 g/cm ³
Water solubility:	0.0029 g/l

Section 10 – Stability & Reactivity

Conditions to Avoid:	Temperature: > 140 °C Avoid extreme heat.
Hazardous decomposition products:	Copper oxides.
Hazardous reactions:	Stable at normal temperatures and storage conditions.

Section 11 – Toxicological Information

Acute oral toxicity:	LD50/Rat: 1,346 mg/kg
Acute inhalation toxicity:	LC50/4 h/Rat: 1.311 mg/l
Acute dermal toxicity:	LD50/Rabbit: >5,000 mg/kg
Skin irritation:	Rabbit Result: No skin irritation
Eye irritation:	Rabbit Result: Moderate eye irritation
Sensitization:	Guinea pig Result: Animal test did not cause sensitization by skin contact.
Repeated dose toxicity:	Oral, Rat Active ingredient. The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions. Liver effects, Kidney effects, microcytic anaemia.

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Mutagenicity assessment:	Evidence suggests this substance does not cause genetic damage in cultured bacterial cells. Evidence suggests this substance does not cause genetic damage in animals. Active ingredient.
Carcinogenicity assessment:	Animal testing did not show any carcinogenic effects. Active ingredient
Toxicity to reproduction assessment:	Animal testing did not show any effects on fertility Active ingredient.
Assessment teratogenicity:	Animal testing showed effects on embryo-foetal development at levels equal to or above those causing maternal toxicity. Active ingredient

Section 12 – Ecological Information

Ecotoxicity effects

Toxicity to fish:	LC50/96 h/ <i>Oncorhynchus mykiss</i> (Rainbow trout): 4.79 mg/l
Toxicity to algae:	ErC50/72 h/ <i>Pseudokirchneriella subcapitata</i> (Green algae): 18.03mg/l
Aquatic toxicity:	EC50/48 h/ <i>Daphnia</i> spp: 1.61mg/l

Section 13 – Disposal Considerations

Product:	Do not contaminate ponds, waterways, or ditches with chemical or used container.
Contaminated packaging:	Do not re-use empty containers. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. If not recycling, break, crush, or puncture, and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Section 14 – Transport Information

ADG Code

UN-Number:	3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s.
Class:	9

Packaging group	III (Copper hydroxide)
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IMDG	
UN-Number:	3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Copper hydroxide)

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Class: 9
Packaging group: III
Labelling No: 9
Marine pollutant: Yes

Further information: Not regulated as a hazardous material by IATA.
Optional classification as per IATA Special Provision A97.
Classified as dangerous goods according to the ADG Code.

Section 15 – Regulatory

Labelling
Symbol(s): Xn Harmful
N Dangerous for the environment

Hazardous components: Copper dihydroxide

R-phrase(s): R22 Harmful if swallowed.
R20 Harmful by inhalation.
R36 Irritating to eyes.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s): S22 Do not breathe dust.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Further information: Classified as hazardous according to criteria of NOHSC.

National regulatory information
SUSDP: Schedule 5
To avoid risks to man and the environment, comply with the instructions for use.

Section 16 – Other Information

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Sources of key data used to compile the Safety Data Sheet:

1. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]
2. Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)].
3. List of Designated Hazardous Substances [NOHSC:10005(1999)].
4. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)].
5. Australian Code for the Transport of Dangerous Goods by Road and Rail No. 7 [National Transport Commission].
6. Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP), No. 19 [NDPSC:2004].
7. National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)].

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