

SAFETY DATA SHEET



Kocide® Blue Xtra™ fungicide

Version 0.0
Document no. 130000000296

Revision Date 00.00.0000
Issue Date 19.12.2019

This SDS adheres to the standards and regulatory requirements of Australia and may not meet the regulatory requirements in other countries.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : Kocide® Blue Xtra™ fungicide
: Cu 35%

Other names : B11486799

Recommended use of the chemical and restriction on use

Recommended use : Fungicide

Restrictions on use : Do not use product for anything outside of the above specified uses.

Manufacturer, importer, supplier, representative office

Company : Production Agriscience (Australia) Pty Ltd
Street address : Level 9, 67 Albert Avenue
CHATSWOOD NSW 2067
Australia

Customer Information Number: 1800-700-096
aucustomerservice@corteva.com

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: +61 2 9474 7350

Local Emergency Contact: 1800-370-754

For advice, contact a doctor (at once) or the Australian Poisons Information Centre: 131 126

Transport Emergency Only Dial 000

2. HAZARDS IDENTIFICATION

Product hazard classification

Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 4
Serious eye damage/eye irritation : Category 2A
Short-term (acute) aquatic hazard : Category 2
Long-term (chronic) aquatic hazard : Category 1

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

Label content

Pictogram :



Signal word : Warning

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- Hazardous warnings** : Harmful if swallowed or if inhaled.
Causes serious eye irritation.
Very toxic to aquatic life with long lasting effects.
- Precautionary statements** : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear eye protection/ face protection.
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
Rinse mouth.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/ attention.
Collect spillage.
Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Components

Chemical name	CAS-No.	Concentration
Copper dihydroxide	20427-59-2	53.8 %
Limestone	1317-65-3	10 – 15%
Tetrasodium pyrophosphate	7722-88-5	3 - 10%
Quartz	14808-60-7	0.3 - 1%
Other Ingredients		20.2 - 32.9 %

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre. In Australia 13 11 26. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

- Inhalation** : Remove person to fresh air. If signs/symptoms continue, get medical attention. Artificial respiration and/or oxygen may be necessary. Call a poison control center or doctor for treatment advice.
- 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.

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- Ingestion** : Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Call a poison information centre or doctor for treatment advice.
- Most important symptoms/effects, acute and delayed** : No information available.
- Protection of first-aiders** : No information available.
- Notes to physician** : Treat symptomatically.
Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Water spray, Dry chemical, Foam, Carbon dioxide (CO₂)
- Unsuitable extinguishing media** : High volume water jet, (contamination risk)
- Specific hazards** : No information available.
- Special protective equipment for firefighters** : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
- Specific extinguishing methods** : No information available.
- Further information** : Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Control Runoff. (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.
- Hazchem Code** : 2Z

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures** : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment.
Use personal protective equipment.
- Environmental precautions** : Prevent material from entering sewers, waterways, or low areas.

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Methods and materials for containment and 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.

7. HANDLING AND STORAGE

Handling

Technical measures/Precautions : Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

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

Storage

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Applicable occupational exposure limits are listed below.

Limestone		
TWA (Calcium carbonate)	10 mg/m ³	AU OEL (2013-12-10)
Tetrasodium pyrophosphate		
TWA	5 mg/m ³	AU OEL (2012-05-04)
Quartz		
TWA	0.1 mg/m ³ (Respirable dust)	AU OEL (2012-05-04)
TWA (Silica)	(Respirable fraction)	ACGIH (2013-03-01)

Engineering measures : Use only with adequate ventilation.

Biological occupational exposure limits : No information available.

Personal protective equipment

Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.

Hand protection : None specified.

Eye protection : Wear protective eyewear to prevent contact with this substance.

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Skin protection : Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.

Hygiene measures : Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash all protective clothing after use.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance (Physical state, form, colour, etc.)**

Physical state : Solid
Form : Solid, granular
Colour : Blue

Odour : Characteristic copper odour

Odour Threshold : Not determined

pH : 9.1 (10 g/l)

Melting point/freezing point

No information available.

Initial boiling point and boiling range

No information available.

Flash point : Not applicable

Evaporation rate : No information available.

Flammability (solid, gas) : Does not sustain combustion.

Upper/lower flammability or explosive limits

Upper explosion limit : No information available.
Lower explosion limit : No information available.

Vapour pressure : No information available.

Vapour density : No information available.

Density

Density : 1.0417 g/cm³

Solubility(ies)

Water solubility : 0.0029 g/l

Partition coefficient: n-octanol/water : No information available.

Auto-ignition temperature

Auto-ignition temperature : 340 °C

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Decomposition temperature	:	No information available.
Viscosity Viscosity, kinematic	:	No information available.
Molecular weight	:	No information available.
Oxidizing properties	:	The product is not oxidizing.

10. STABILITY AND REACTIVITY

Reactivity	:	No information available.
Chemical stability	:	Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions	:	No information available.
Conditions to avoid	:	Temperature: > 140°C Avoid extreme heat.
Materials to avoid	:	No information available.
Hazardous decomposition products	:	Copper oxides

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Oral

Kocide® Blue Xtra™ fungicide : LD50/Rat: 1,346 mg/kg

Inhalation

Kocide® Blue Xtra™ fungicide : LC50/4 h/Rat(dust/mist): 1.311 mg/l

Dermal

Kocide® Blue Xtra™ fungicide : LD50/Rabbit: > 5,000 mg/kg

Skin corrosion/irritationKocide® Blue Xtra™ fungicide : Species: Rabbit
Result: No skin irritation**Serious eye damage/eye irritation**Kocide® Blue Xtra™ fungicide : Species: Rabbit
Result: Irritating to eyes.**Respiratory or skin sensitisation**Kocide® Blue Xtra™ fungicide : Species: Guinea pig
Result: Animal test did not cause sensitization by skin contact.

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Germ cell mutagenicity

- Copper dihydroxide : Weight of evidence does not support classification as a germ cell mutagen. Information given is based on data obtained from similar substances.
- Limestone : Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Overall weight of evidence indicates that the substance is not mutagenic. Information given is based on data obtained from similar substances.
- Tetrasodium pyrophosphate : Did not cause genetic damage in cultured bacterial cells.

Carcinogenicity

- Kocide® Blue Xtra™ fungicide : Not classifiable as a human carcinogen.

Reproductive toxicity

- Copper dihydroxide : Reproductive toxicity: No toxicity to reproduction
Animal testing did not show any effects on fertility.
Information given is based on data obtained from similar substances.
Teratogenicity: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
- Limestone : Reproductive toxicity: No toxicity to reproduction
Animal testing showed no reproductive toxicity.
Information given is based on data obtained from similar substances.
Teratogenicity: Animal testing showed no developmental toxicity.
Information given is based on data obtained from similar substances.

Specific Target Organ Toxicity

Specific target organ toxicity - single exposure

- Limestone : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- Tetrasodium pyrophosphate : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

- Kocide® Blue Xtra™ fungicide : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.

Aspiration hazard

- Limestone : No aspiration toxicity classification
- Tetrasodium pyrophosphate : No aspiration toxicity classification
- Quartz : No aspiration toxicity classification

Other

- Copper dihydroxide : Repeated dose toxicity:
No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for

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classification., The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral/Rat

Liver effects, Kidney effects, microcytic anemia

Information given is based on data obtained from similar substances.

Oral - feed/Rat

Spleen effects

Information given is based on data obtained from similar substances.

Limestone

: Repeated dose toxicity:

Ingestion/Rat 48 d

NOAEL: > 1,000 mg/kg

Method: OECD Test Guideline 422

No toxicologically significant effects were found., Information given is based on data obtained from similar substances.

Inhalation/Rat 90 d dust/mist

NOAEL: > 0.212 mg/l

Method: OECD Test Guideline 413

No toxicologically significant effects were found., Information given is based on data obtained from similar substances.

Tetrasodium pyrophosphate

: Repeated dose toxicity:

Ingestion/Rat

NOAEL: 500 mg/kg

Method: OECD Test Guideline 408

No toxicologically significant effects were found.

Quartz

: Repeated dose toxicity:

Inhalation/Rat

Fluid retention in lungs (pulmonary oedema), lung effects, Inflammation, Chronic lung disease, Fibrosis

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12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Acute and prolonged toxicity to fish

Kocide® Blue Xtra™ fungicide : LC50/96 h/Oncorhynchus mykiss (rainbow trout): 4.79 mg/l

Toxicity to aquatic plants

Kocide® Blue Xtra™ fungicide : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): 18.03 mg/l

Acute toxicity to aquatic invertebrates

Kocide® Blue Xtra™ fungicide : EC50/48 h/Daphnia (water flea): 1.61 mg/l

Chronic toxicity to fish

Copper dihydroxide : NOEC/90 d: 0.0017 mg/l

Chronic toxicity to aquatic Invertebrates

Kocide® Blue Xtra™ fungicide : NOEC/21 d/Daphnia magna (Water flea): 0.0025 mg/l
Method: OECD Test Guideline 211
(Data on the product itself), Information source: Internal study report**Persistence and degradability**

Kocide® Blue Xtra™ fungicide : Not readily biodegradable. Estimation based on data obtained on active ingredient.

Bioaccumulation

Kocide® Blue Xtra™ fungicide : Does not bioaccumulate. Estimation based on data obtained on active ingredient.

Mobility in soil

No information available.

Other adverse effects

Kocide® Blue Xtra™ fungicide : See product label for additional application instructions relating to environmental precautions.

13. DISPOSAL CONSIDERATIONS**Waste disposal methods** : Do not contaminate ponds, waterways or ditches with chemical or used container. Single rinse before disposal.**Contaminated packaging** : Do not re-use empty containers.
Triple or preferably pressure rinse containers before disposal. Add rinsing's 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 500 mm 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.

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14. TRANSPORT INFORMATION

ADG

UN number : 3077
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper hydroxide)
Transport hazard class : 9
Packing group : III
Hazchem Code : 2Z

IMDG

UN number : 3077
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper hydroxide)
Transport hazard class : 9
Packing group : III
Marine pollutant : yes (Copper hydroxide)

IATA

UN number : 3077
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper hydroxide)
Transport hazard class : 9
Packing group : III

Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises : Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA special provision A197, and ADR/RID special provision 375. Not dangerous goods under ADG code when being transported in IBCs or other receptacles < 500 kg (Special Provision AU01).

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons: Schedule 5
APVMA Number: 58989

16. OTHER INFORMATION

References

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Revision Date/Version

Date of first preparation : 23.02.2010
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Take notice of the directions of use on the label.

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