

SAFETY DATA SHEET



DuPont™ Kocide® Blue Xtra™ fungicide

Version 2.1

Revision Date 25.02.2015

Document no. 13000000296

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 : DuPont™ Kocide® Blue Xtra™ fungicide
: Cu 35%

Other names : B11486799

Recommended use of the chemical and restriction on use

Recommended use : Fungicide

Manufacturer, importer, supplier

Company : Du Pont (Australia) Pty Ltd
Street address : 7 Eden Park Drive
Macquarie Park NSW 2113
Australia

Telephone : (02) 9923 6111
Telefax : (02) 9923 6011

Emergency telephone number : (02) 9923 6275 (Transport Emergency)
(24 hr Emergency Medical Information: 1800 674 415)

2. HAZARDS IDENTIFICATION

Product hazard classification

Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 4
Serious eye damage/eye irritation : Category 2A
Acute aquatic toxicity : Category 2
Chronic aquatic toxicity : Category 1

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

Label content

Pictogram :



Signal word : Warning

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.

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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 %
Tetrasodium pyrophosphate	7722-88-5	5 - 10%
Other Ingredients		35 - 40%

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.
- 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.

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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.
- Environmental precautions** : Prevent material from entering sewers, waterways, or low areas.
- 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

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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

Chemical Name	Occupational Exposure Limits	Regulation
Tetrasodium pyrophosphate		
TWA	5 mg/m ³	AU NOEL (12 2011)

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.

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 odor

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

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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/cm ³
Solubility(ies)	:	
Water solubility	:	0.0029 g/l
Partition coefficient: n-octanol/water	:	No information available.
Auto-ignition temperature	:	
Auto-ignition temperature	:	340 °C Auto-ignition temperature
Decomposition temperature	:	No information available.
Viscosity	:	
Viscosity, kinematic	:	No information available.
Molecular weight	:	No information available.

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

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

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Inhalation

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

Dermal

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

Skin corrosion/irritation

DuPont™ Kocide® Blue Xtra™
fungicide : Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation

DuPont™ Kocide® Blue Xtra™
fungicide : Species: Rabbit
Result: Irritating to eyes.

Respiratory or skin sensitisation

DuPont™ Kocide® Blue Xtra™
fungicide : Species: Guinea pig
Result: Animal test did not cause sensitization by skin contact.

Germ cell mutagenicity

Copper dihydroxide : Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects. Evidence suggests this substance does not cause genetic damage in cultured bacterial cells. Evidence suggests this substance does not cause genetic damage in animals. Information given is based on data obtained from similar substances.

Tetrasodium pyrophosphate : Did not cause genetic damage in cultured bacterial cells.

Carcinogenicity

Copper dihydroxide : Not classifiable as a human carcinogen.
Animal testing did not show any carcinogenic effects.
Information given is based on data obtained from similar substances.

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.

Specific Target Organ Toxicity**Specific target organ toxicity - single exposure**

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

Specific target organ toxicity - repeated exposure

DuPont™ 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

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Tetrasodium pyrophosphate : No aspiration toxicity classification

Other

Copper dihydroxide : Repeated dose toxicity:
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.

Tetrasodium pyrophosphate : Repeated dose toxicity:
Ingestion/Rat
NOAEL: 500 mg/kg
Method: OECD Test Guideline 408
No toxicologically significant effects were found.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Acute and prolonged toxicity to fish

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

Toxicity to aquatic plants

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

Acute toxicity to aquatic invertebrates

DuPont™ 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

DuPont™ 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

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

Bioaccumulation

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

Mobility in soil

No information available.

Other adverse effects

DuPont™ Kocide® Blue Xtra™ : See product label for additional application instructions relating to

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fungicide

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 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 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.

14. TRANSPORT INFORMATION

ADG

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

IMDG

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

IATA

UN number : 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Copper hydroxide)
Class : 9
Packing group : III

Matters needing attention for transportation : Marine Pollutants 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 and IATA special provision A197. Not dangerous goods under ADG code when being transported in IBCs or other receptacles < 500 kg (Special Provision AU01).

15. REGULATORY INFORMATION

SUSMP: Schedule 6
APVMA Number: 58989

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16. OTHER INFORMATION**References**

SDS Number: 130000000296

Revision Date/Version

Date of first preparation : 23.02.2010

Revision Date : 25.02.2015

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Take notice of the directions of use on the label.

Significant change from previous version is denoted with a double bar.

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