

Kocide® Opti[™] Fungicide

 Version 0.0
 Revision Date 00.00.0000

 Document no. 130000024626
 Issue Date 03.12.2019

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® Opti™ Fungicide

: (Cu 30%)

Other names : B12015094

DPX-GFJ52 46.1WG

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 1
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.

Avoid release to the environment. 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 nameCAS-No.ConcentrationCopper Hydroxide20427-59-246.1 %Other Ingredients53.9 %

4. FIRST AID MEASURES

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

Inhalation : Move to fresh air. 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.



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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

Wear full 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.

(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.

Runoff from fire control may be a pollution hazard. Control Run-off.

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

Shovel or sweep up. Avoid dust formation. Shovel into suitable container for

disposal.

Water Spill: If feasible, copper may be precipitated/-ultra filtrated with caustics or

other chemicals and resulting sludge disposed of in a chemical landfill.



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Additional advice : Never return spills in original containers for re-use. 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.

Avoid contact with skin, eyes and clothing.

Precautions for safe

handling

Keep away from heat and sources of ignition.

Storage

Suitable storage

conditions

Keep container tightly closed in a dry and well-ventilated place. Keep in cool, dry

place in original containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	Occupational Exposure Limits	Regulation
Copper hydroxide		
TWA (as Cu)	0.2 mg/m3 (Fume.)	US ACGIH (03 2014)
TWA (as Cu)	1 mg/m3 (Dust and mist.)	US ACGIH (03 2014)

Engineering measures : Ensure adequate ventilation.

Biological occupational

exposure limits

No information available.

Personal protective equipment

Respiratory protection : None specified.

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 : 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. Remove personal protective equipment immediately after handling this product.

Wash the outside of gloves before removing. As soon as possible, wash

thoroughly and change into clean clothing.



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Protective measures : End users of this product should follow label instructions for personal protection

when using this product.

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 : 7.5 - 9.5

Melting point/freezing point

No information available.

Initial boiling point and boiling range

No information available.

Flash point : No information available.

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

Bulk density : 529 - 705 kg/m3

Solubility(ies)

Water solubility : dispersible

Partition coefficient: n-

octanol/water

No information available.

Auto-ignition temperature

No information available.

Decomposition temperature

: No information available.



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Viscosity

Viscosity, kinematic : No information available.

Molecular weight : No information available.

Oxidizing properties : No information available.

10. STABILITY AND REACTIVITY

Reactivity : No hazards to be specially mentioned.

Chemical stability : Stable at normal temperatures and storage conditions.

Possibility of hazardous

reactions

No information available.

Conditions to avoid : No information available.

Materials to avoid : None reasonably foreseeable.

Hazardous

decomposition products

Hazardous thermal decomposition products: Copper oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral

Kocide® Opti[™] fungicide : LD50/Rat: 1,847 mg/kg

Inhalation

Kocide® Opti™ fungicide : LC50/4 h/Rat(dust/mist): > 2.08 mg/l

Dermal

 $\label{eq:Kocide} \text{Kocide}^{\tiny{\texttt{0}}} \; \text{Opti}^{\tiny{\texttt{1}}} \; \text{fungicide} \qquad \qquad : \quad \text{LD50/Rat:} > 2,000 \; \text{mg/kg}$

Skin corrosion/irritation

Kocide® Opti™ fungicide : Species: Rabbit

Result: No skin irritation

Serious eye damage/eye irritation

Kocide® Opti™ fungicide : Species: Rabbit

Result: Irritating to eyes.

Respiratory or skin sensitisation

Kocide® Opti™ fungicide : Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Kocide® Opti™ fungicide : Animal testing did not show any mutagenic effects.

Carcinogenicity

Copper Hydroxide : Not classifiable as a human carcinogen.

Animal testing did not show any carcinogenic effects.

Information given is based on data obtained from similar substances.



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Reproductive toxicity

Kocide® Opti™ fungicide : Reproductive toxicity: No toxicity to reproduction

Specific Target Organ Toxicity

Specific target organ toxicity - single exposure

Kocide® Opti™ fungicide : The substance or mixture is not classified as specific target organ

toxicant, single exposure.

Specific target organ toxicity - repeated exposure

Kocide® Opti™ fungicide : The substance or mixture is not classified as specific target organ

toxicant, repeated exposure.

Aspiration hazard

Kocide® Opti™ fungicide : No aspiration toxicity classification

Other

Copper Hydroxide : Repeated dose toxicity:

No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for 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.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Acute and prolonged toxicity to fish

Kocide® Opti™ fungicide : LC50/96 h/Oncorhynchus mykiss (rainbow trout): 0.24 mg/l

Toxicity to aquatic plants

Copper Hydroxide : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): 0.00939 mg/l

Acute toxicity to aquatic invertebrates

Kocide® Opti™ fungicide : EC50/48 h/Daphnia magna (Water flea): 0.118 mg/l

Chronic toxicity to fish

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

Chronic toxicity to aquatic Invertebrates

Copper Hydroxide : NOEC/21 d: 0.03 mg/l

Persistence and degradability

Kocide® Opti™ fungicide : Not readily biodegradable. Estimation based on data obtained on active

ingredient.

Bioaccumulation

Kocide® Opti™ fungicide : Does not bioaccumulate. Estimation based on data obtained on active

ingredient.



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Mobility in soil

No information available.

Other adverse effects

Kocide® Opti™ 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.

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. Single rinse before disposal. Add rinsing's to spray tank.DO NOT dispose of

undiluted chemicals on-site. Puncture and bury empty containers in a local authority landfill. Empty containers and product should not be burnt.

Contaminated packaging : Do not re-use empty containers.

14. TRANSPORT INFORMATION

ADG

UN number : 3077

UN proper shipping

ing : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper hydroxide)

name

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

Not dangerous goods under ADG code when being transported in IBCs or other receptacles < 500 kg (Special Provision AU01). 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.



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15. REGULATORY INFORMATION

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

APMVA Number: 63216

16. OTHER INFORMATION

References

SDS Number: 130000024626

Revision Date/Version

Date of first preparation : 04.10.2007 Revision Date : 03.12.2019

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Take notice of the directions of use on the label.

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