

Kocide® Opti[™] Fungicide / Bactericide

 Version 0.0
 Revision Date 07.01.2020

 Document no. 130000024626
 Issue Date 07.01.2020

This SDS adheres to the standards and regulatory requirements of New Zealand 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 / Bactericide

(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 : DuPont (New Zealand) Limited

Street address : 89 Paritutu Road, New Plymouth, 4310

New Zealand

Customer Information Number: 0800-803-939

NZCustomerservice@corteva.com

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: 0800 844 455 Local Emergency Contact: +64 6 751 2407

For medical advice, contact the New Zealand Poisons Information Centre:

0800 POISON (0800 764 766) Transport Emergency Only Dial: 111

2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria in the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. Refer to Section 15 for HSNO Approval Number. Classified as a Dangerous Good according to NZS 5433

HSNO Classification:

6.1D: Acute toxicity (Oral, Inhalation)

6.3B: Skin irritation6.5B: Skin sensitisation

6.9B: Specific Target Organ Toxicity (Lungs)

8.3A: Serious eye damage

9.1A: Aquatic toxicity (Acute or Chronic)9.3C: Ecotoxic to terrestrial vertebrates

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



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Label content

Pictogram :



Signal word : Danger

Hazardous warnings : Harmful if swallowed.

Causes mild skin irritation.

May cause an allergic skin reaction. Causes serious eye damage.

Harmful if inhaled.

May cause damage to organs through prolonged or repeated exposure. (Lungs)

Very toxic to aquatic life with long lasting effects.

Harmful to terrestrial vertebrates.

Precautionary statements

Do not breathe 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.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Specific treatment (see supplemental first aid instructions on this label).

Rinse mouth.

If skin irritation or rash occurs: Get medical advice/ attention.

Wash contaminated clothing before re-use.

Collect spillage.

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

If you mill or grind this product you may change its toxicological properties.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Components

Chemical nameCAS-No.ConcentrationCopper Hydroxide20427-59-246.1 %Other Ingredients53.9 %



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4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Contact the National Poisons Centre 0800 POISON (0800 764766) or a doctor if you feel unwell.

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.

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.



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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.

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.

Keep out of reach of children. Avoid contact with skin, eyes and clothing. Avoid breathing dust or spray mist. When using do not eat, drink or smoke. Wash hands

and face before breaks and after work.

Precautions for safe

handling

Keep away from heat and sources of ignition.

Storage

Suitable storage

conditions

Store in original container. Store in a cool, dark place. Keep tightly closed in a dry, cool and well-ventilated place. Keep locked up. Do not store with feed, seeds or

foodstuffs.



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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 : Waterproof gloves.

Eye protection : Safety goggles

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

Hygiene measures : Avoid contact with the skin and the eyes. Avoid breathing dust or spray mist.

When using do not eat, drink or smoke. Wash hands and face before breaks and

after work.

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.



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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

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.

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



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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

Kocide® Opti[™] fungicide : LD50/Rat: > 2,000 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.

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.



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> 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.

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 In accordance with local and national regulations. Ensure container is empty.

Do not re-use empty containers. If not recycling, burn if circumstances permit Contaminated packaging

otherwise bury in an approved landfill. Dispose of this product only by using

according to this label. Dispose of in accordance with local regulations



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14. TRANSPORT INFORMATION

Classification for ROAD and Rail transport:

UN number 3077

UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper

name hvdroxide)

Transport hazard class Packing group Ш

Classification for SEA transport (IMO-IMDG):

UN number 3077

UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper

name hydroxide)

Transport hazard class 9 Packing group Ш

Marine pollutant yes (Copper hydroxide)

Classification for AIR transport (IATA/ICAO):

UN number 3077

UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper

name hydroxide)

Transport hazard class 9 Ш Packing group

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 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 nondangerous goods as provided in section 2.10.2.7 of IMDG code and IATA special

provision A197. If the product meets these special provisions, it may be shipped in New Zealand as a non-dangerous goods under provisions in NZS 5433 code

which accepts IMDG and IATA classification.

15. REGULATORY INFORMATION

NZ EPA New Zealand Approval Code (HSNO): HSR000739

ACVM Approval Number: P007726

16. OTHER INFORMATION

References

SDS Number: 130000024626

Revision Date/Version

Date of first preparation 07.03.2016 Revision Date 07.01.2020

Version

Take notice of the directions of use on the label.

[™] Trademark of E.I. du Pont de Nemours and Company.

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