

SAFETY DATA SHEET



DuPont™ Kocide® Opti™ fungicide

Version .3.0

Revision Date 25.02.2010

Ref. 130000024626

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 information

Trade name : DuPont™ Kocide® Opti™ fungicide
Types : (Cu 30%)
Use of the Substance/Mixture : Fungicide
Company : Du Pont (Australia) Ltd
7 Eden Park Drive
Macquarie Park NSW 2113
Australia
Telephone : (02) 9923 6111
Telefax : (02) 9923 6011
Emergency telephone : (02) 9923 6275 (Transport Emergency)
(24 hr Emergency Medical Information: 1800 674 415)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : B12015094
DPX-GFJ52 30WG
GX-569 30WG

Components

Chemical Name	CAS-No.	Concentration
Copper dihydroxide	20427-59-2	46.1 %
Inert Ingredients		53.9 %

3. HAZARDS IDENTIFICATION

Hazardous classification

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

Risks

Harmful by inhalation and if swallowed.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety data

Keep out of the reach of children.
Keep away from food, drink and animal stock feed.
When using do not eat, drink or smoke.
If swallowed, seek medical advice immediately and show this container or label.
This material and its container must be disposed of in a safe way.
Use appropriate container to avoid environmental contamination.
Do not contaminate water with the product or its container.
Do not clean application equipment near surface water / Avoid contamination via drains from farmyards and roads.

DuPont™ Kocide® Opti™ fungicide

Version .3.0

Revision Date 25.02.2010

Ref. 130000024626

4. FIRST AID MEASURES

- General advice : If poisoning occurs, contact a doctor or Poisons Information Centre. In Australia 13 11 26.
- 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 able 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.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO₂)
- Extinguishing media which shall not be used for safety reasons : High volume water jet (contamination risk)
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
- 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.
- 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.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Review sections 5 and 7 before proceeding with clean-up. Use personal protective equipment.

SAFETY DATA SHEET



DuPont™ Kocide® Opti™ fungicide

Version .3.0

Revision Date 25.02.2010

Ref. 130000024626

- Environmental precautions : Prevent material from entering sewers, waterways, or low areas
- Methods for cleaning up : Shovel or sweep up. Avoid dust formation. Shovel into suitable container for disposal.
- Water Spill: If feasible, copper may be precipitated/ultrafiltrated with caustics or other chemicals and resulting sludge disposed of in a chemical landfill.
- Additional advice : Dispose of in accordance with local regulations. Refer to the product label for instructions.

7. HANDLING AND 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

Storage

- Requirements for storage areas and containers : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place. Observe label precautions. Store product in original container only in a location inaccessible to children and pets.

8. EXPOSURE CONTROLS/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 hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid breathing dust or vapour.

SAFETY DATA SHEET



DuPont™ Kocide® Opti™ fungicide

Version .3.0

Revision Date 25.02.2010

Ref. 130000024626

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Granular
Colour	: Blue
Odour	: None
pH	: 7.5 - 9.5
Flammability (solid, gas)	: Does not sustain combustion.
Explosive properties	: Not explosive
Bulk density	: 529 - 705 kg/m ³
Water solubility	: Dispersible

10. STABILITY AND REACTIVITY

Materials to avoid	: None reasonably foreseeable
Hazardous decomposition products	: Copper oxides
Hazardous reactions	: Stable at normal temperatures and storage conditions

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50/Rat : 1,847 mg/kg
Acute inhalation toxicity	: LC50/4 h/Rat : > 2.08 mg/l
Acute dermal toxicity	: LD50/Rat : > 2,000 mg/kg
Skin irritation	: Rabbit Result: No skin irritation
Eye irritation	: Rabbit Result: Mild eye irritation
Sensitisation	: Guinea pig Result: Animal test did not cause sensitization by skin contact.
Repeated dose toxicity	: Oral, Rat The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions., Liver effects, Kidney effects, microcytic anemia Information given is based on data obtained from similar substances.

SAFETY DATA SHEET



DuPont™ Kocide® Opti™ fungicide

Version .3.0

Revision Date 25.02.2010

Ref. 130000024626

- 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.
Information given is based on data obtained from similar substances.
- Toxicity to reproduction assessment : Animal testing did not show any effects on fertility.
Information given is based on data obtained from similar substances.
- Assessment teratogenicity : Animal testing showed effects on embryo-foetal development at levels equal to or above those causing maternal toxicity.
Active ingredient

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

- Toxicity to fish : LC50/96 h/*Oncorhynchus mykiss* (Rainbow trout): 0.24 mg/l
- Toxicity to algae : ErC50/72 h/*Pseudokirchneriella subcapitata* (Green algae): 0.00939 mg/l
Active ingredient
- Aquatic toxicity : EC50/48 h/*Daphnia magna* (Water flea): 0.118 mg/l

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 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.

SAFETY DATA SHEET



DuPont™ Kocide® Opti™ fungicide

Version .3.0

Revision Date 25.02.2010

Ref. 130000024626

14. TRANSPORT INFORMATION

ADG

UN-Number : 3077
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
Class : 9
Packing group : III
(Copper hydroxide)

IMDG

UN-Number : 3077
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
(Copper hydroxide)
Class : 9
Packing group : III
Labelling No. : 9
Marine pollutant : Yes (Copper hydroxide)

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

15. REGULATORY INFORMATION

Labelling

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

Hazardous components : Copper dihydroxide

R-phrase(s) : R20/22 Harmful by inhalation and if swallowed.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s) : S 2 Keep out of the reach of children.
S13 Keep away from food, drink and animal stock feed.
S20/21 When using do not eat, drink or smoke.
S46 If swallowed, seek medical advice immediately and show this container or label.
S35 This material and its container must be disposed of in a safe way.
S57 Use appropriate container to avoid environmental contamination.
SP 1 Do not contaminate water with the product or its container.
Do not clean application equipment near surface water /
Avoid contamination via drains from farmyards and roads.

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.

DuPont™ Kocide® Opti™ fungicide

Version .3.0

Revision Date 25.02.2010

Ref. 130000024626

16. OTHER INFORMATION**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 & 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)]

Department:

Du Pont (Australia) Ltd
7 Eden Park Drive
Macquarie Park NSW 2113
Australia

Further information:

Take notice of the directions of use on the label.

® Registered trademark of E.I. du Pont de Nemours and Company

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.