



Safety data sheet

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SC Safety data sheet according to 91/155/EEC

Date / Revised: March 2, 2006

Product: **FUNGINEX® DC**

Version: 1.0

339 09 F

(62003/SDS_CPA_EU/EN)

Date of print 02.03.2006

1. Substance/preparation and company identification

FUNGINEX® DC

Company:

Sumitomo Corporation
AgriScience Development Team,
AgriScience Department
Telephone: +81-3-6221-3039 / Fax : +81-3-6221-3035

Emergency information:

Sumitomo Corporation
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Telephone: +81-3-6221-3039 / Fax : +81-3-6221-3035

2. Composition/information on ingredients

Chemical nature

crop protection product, fungicide, dispersion

Hazardous ingredients

Triforine

Content (W/W): 17.7 %
CAS Number: 26644-46-2
R-phrases: 52/53

| cyclohexanone

Content (W/W): 20.2 %
CAS Number: 108-94-1
EC-Number: 203-631-1
INDEX-Number: 606-010-00-7
Hazard symbol(s): Xn
R-phrases: 10/20

| N-Methylpyrrolidone

Content (W/W): 33 %
CAS Number: 872-50-4
EC-Number: 212-828-1
INDEX-Number: 606-021-00-7
Hazard symbol(s): Xi
R-phrases: 36/38

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Dodecylbenzenesulphonic acid, compound with 2,2',2"-nitrilotriethanol (1:1)

Content (W/W): 23.3 %

CAS Number: 27323-41-7

EC-Number: 248-406-9

Hazard symbol(s): Xi

R-phrases: 36/38

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

3. Hazard identification

Flammable.
Harmful by inhalation.
Irritating to eyes and skin.
Harmful to aquatic organisms.

4. First-aid measures

General advice:

Avoid contact with the skin, eyes and clothing. Remove contaminated clothing. If difficulties occur: Obtain medical attention. Show container, label and/or safety data sheet to physician.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-fighting measures

Suitable extinguishing media:

water spray, carbon dioxide, foam, dry extinguishing media

Specific hazards:

carbon monoxide, hydrogen chloride, nitrogen oxides, sulfur oxides, organochloric compounds
The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

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Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately.

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust).

For large amounts: Dike spillage. Pump off product.

Cleaning operations should be carried out only while wearing breathing apparatus. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

7. Handling and storage

Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

The product is combustible. Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

Segregate from foods and animal feeds. Segregate from oxidants.

Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight.

Storage stability:

Storage duration: 24 Months

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:

Breathing protection if gases/vapours are formed. Respiratory protection in case of vapour/aerosol release. Wear respiratory protection if ventilation is inadequate. Gas filter EN141 Type A for gases/vapours of organic compounds (boiling point >65 °C).

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Eye protection:

Tightly fitting safety goggles (splash goggles) (EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to DIN-EN 465).

General safety and hygiene measures:

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Take off immediately all contaminated clothing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and chemical properties

Form:	liquid
Colour:	brownish
Odour:	aromatic
pH value:	3.7 – 4.4 (10 %) (as a dispersion)
Flash point:	53 °C
Density:	1.075 g/cm ³ (20 °C)
Solubility in water:	dispersible

10. Stability and reactivity

Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
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Substances to avoid:
oxidizing agent

Hazardous reactions:
No hazardous reactions if stored and handled as prescribed/indicated.

Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

LD50/oral/rat: 3487 mg/kg

LC50/by inhalation/rat: 4.0 mg/l / 4 h

LD50/dermal/rat: > 2000 mg/kg

Primary skin irritation/rabbit: Irritant.

Primary irritations of the mucous membrane/rabbit: Irritant.

Sensitization/guinea pig: Skin sensitizing effects were not observed in animal studies.

Additional information:

Misuse can be harmful to health.

12. Ecological information

Ecotoxicity

Toxicity to fish:
Oncorhynchus mykiss/LC50 (96 h): 13.2 mg/l

Aquatic invertebrates:
Daphnia magna/EC50 (24 h): 38.9 mg/l

Aquatic plants:
Pseudokirchneriella subcapitata/EC50 (96 h): 363 mg/l

Additional information

Other ecotoxicological advice:
Do not discharge product into the environment without control.

13. Disposal considerations

Must be dumped or incinerated in accordance with local regulations.

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Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport information

Land transport

ADR	: Class	3
	Packaging group	III
	UN-number	1993
	Designation of goods	FLAMMABLE LIQUID, N.O.S. (Contains: CYCLOHEXANONE, TRIFORINE 18%)

RID	: Class	3
	Packaging group	III
	UN-number	1993
	Designation of goods	FLAMMABLE LIQUID, N.O.S. (Contains: CYCLOHEXANONE, TRIFORINE 18%)

Inland waterway transport

ADNR	: Class	3
	Packaging group	III
	UN-number	1993
	Designation of goods	FLAMMABLE LIQUID, N.O.S. (Contains: CYCLOHEXANONE, TRIFORINE 18%)

Sea transport

IMDG/GGVSee	: Class	3
	Packaging group	III
	UN-number	1993
	Marine pollutant	NO
	Exact technical name	FLAMMABLE LIQUID, N.O.S. (contains CYCLOHEXANONE, TRIFORINE 18%)

Air transport

ICAO/IATA	: Class	3
	Packaging group	III
	UN-number	1993
	Exact technical name	FLAMMABLE LIQUID, N.O.S. (contains CYCLOHEXANONE, TRIFORINE 18%)

15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

Self classification:

Hazard symbol(s)

Xn Harmful.

R-phrase(s)

R10 Flammable.
 R20 Harmful by inhalation.
 R36/38 Irritating to eyes and skin.

S-phrase(s)

S2 Keep out of the reach of children.
 S13 Keep away from food, drink and animal feeding stuffs.
 S20/21 When using do not eat, drink or smoke.
 S25 Avoid contact with eyes.
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S46 If swallowed, seek medical advice immediately and show this container or label.

Hazard determinant component(s) for labeling: triforine, Dodecylbenzenesulphonic acid, compound with 2,2',2"-nitrilotriethanol (1:1), CYCLOHEXANONE, N-METHYL-2-PYRROLIDONE

Other regulations

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

16. Other information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

Xn	Harmful.
Xi	Irritant.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
10	Flammable.
20	Harmful by inhalation.
36/38	Irritating to eyes and skin.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.