# Routine® 200 SC Fungicide

 Version 1 / AUS
 Revision Date: 15.01.2024

 102000021469
 Print Date: 15.01.2024

### SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Trade name Routine® 200 SC Fungicide

**Product code (UVP)** 79468261, 85775669

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Use** Fungicide

1.3 Details of the supplier of the safety data sheet

**Supplier** Bayer Cropscience Pty Ltd

ABN 87 000 226 022 Level 4, 109 Burwood Rd

Hawthorn 3122

Victoria Australia

**Telephone** (03) 9248 6888 **Telefax** (03) 9248 6800

Responsible Department 1800 804 479 Technical Information Service

Website www.crop.bayer.com.au

1.4 Emergency telephone no.

**Emergency telephone no.** 1800 033 111 IXOM Operations Pty Ltd

## SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

### Classification in accordance with Australian GHS Regulation

Skin sensitisation: Category 1

H317 May cause an allergic skin reaction.

Chronic aquatic toxicity: Category 2

H411 Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

### Labelling according to specific Australian legislation

Hazard label for supply/use required.

Signal word: Warning

**Hazard statements** 

H317 May cause an allergic skin reaction.

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### **Precautionary statements**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local regulation.

### 2.3 Other hazards

No additional hazards known beside those mentioned.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Chemical nature**

ISOTIANIL SC 200 g/l

Suspension concentrate (=flowable concentrate)(SC), Flowable concentrate for seed treatment (FS)

Chemical name	CAS-No.	Concentration [%]
Isotianil	224049-04-1	18.35
1,2-Propanediol	57-55-6	>= 1.00 - <= 10.00
1,2-Benzisothiazol-3(2H)-one	2634-33-5	>= 0.005 - <= 0.05
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)	55965-84-9	>= 0.0002 - <= 0.002
Other ingredients (non-hazardous) to 100%		

### **SECTION 4. FIRST AID MEASURES**

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Safety Data Sheet to the doctor.

### 4.1 Description of first aid measures

General advice Move out of dangerous area. Remove contaminated clothing

immediately and dispose of safely. Place and transport victim in stable

position (lying sideways).

**Inhalation** Move to fresh air. Keep patient warm and at rest. Call a physician or

poison control center immediately.

**Skin contact** Wash off thoroughly with plenty of soap and water, if available with

polyethyleneglycol 400, subsequently rinse with water. If symptoms

persist, call a physician.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation

develops and persists.

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**Ingestion** Rinse mouth. Do NOT induce vomiting. Call a physician or poison

control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

**Symptoms** No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

**Treat symptomatically.** In case of ingestion gastric lavage should be

considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable Water spray, Carbon dioxide (CO2), Foam, Sand

**Unsuitable** High volume water jet

5.2 Special hazards arising

from the substance or

mixture

In the event of fire the following may be released: Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective

equipment for firefighters

In the event of fire and/or explosion do not breathe fumes. In the event

of fire, wear self-contained breathing apparatus.

**Further information** Contain the spread of the fire-fighting media. Do not allow run-off from

fire fighting to enter drains or water courses.

Hazchem Code •3Z

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

**Precautions** Avoid contact with spilled product or contaminated surfaces. Use

personal protective equipment.

6.2 Environmental

precautions

Do not allow to get into surface water, drains and ground water.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly,

observing environmental regulations.

**Additional advice** Check also for any local site procedures.

6.4 Reference to other

sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

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### **SECTION 7. HANDLING AND STORAGE**

### 7.1 Precautions for safe handling

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

**Hygiene measures** Avoid contact with skin, eyes and clothing. Keep working clothes

separately. Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be

destroyed (burnt).

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized

persons only. Keep away from direct sunlight.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Isotianil	224049-04-1	0.8 mg/m3 (TWA)		OES BCS*
1,2-Propanediol	57-55-6	474 mg/m3/150 ppm (TWA)	12 2011	AU NOEL
(Total vapour and particulates.)		` ,		
1,2-Propanediol	57-55-6	10 mg/m3 (TWA)	12 2011	AU NOEL
(Particulate.)		, ,		

<sup>\*</sup>OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

#### 8.2 Exposure controls

Respiratory protection Respiratory protection is not required under anticipated

circumstances of exposure.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's

instructions regarding wearing and maintenance.

Hand protection Please observe the instructions regarding permeability and

breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the

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contact time.

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating,

drinking, smoking or using the toilet.

Material Nitrile rubber
Rate of permeability > 480 min
Glove thickness > 0.4 mm
Protective index Class 6

Directive Protective gloves complying with EN

374.

**Eye protection** Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

**Skin and body protection** Wear standard coveralls and Category 3 Type 4 suit.

If there is a risk of significant exposure, consider a higher protective

type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and

should be professionally laundered frequently.

If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully

remove and dispose of as advised by manufacturer.

General protective measures In normal use and handling conditions please refer to the label

and/or leaflet. In all other cases the above mentioned

recommendations would apply.

**Engineering Controls** 

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Form suspension

**Colour** white

Odour weak, characteristic
Odour Threshold No data available

**pH** 6.0 - 8.0 (100 %) (23 °C)

Melting point/rangeNo data availableBoiling PointNo data available

Flash point > 100 °C

Flammability No data available

Auto-ignition temperature 465 °C

Thermal decomposition No data available

Minimum ignition energyNo data availableSelf-accelaratingNo data available

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decomposition temperature

(SADT)

Upper explosion limitNo data availableLower explosion limitNo data availableVapour pressureNo data availableEvaporation rateNo data availableRelative vapour densityNo data availableRelative densityNo data available

**Density** ca. 1.09 g/cm³ (20 °C)

Water solubility No data available

Partition coefficient: n-

octanol/water

Isotianil: log Pow: 2.96 (25 °C)

Viscosity, dynamic No data available
Viscosity, kinematic No data available

Oxidizing properties No oxidizing properties

**Explosivity** Not explosive

92/69/EEC, A.14 / OECD 113

**9.2 Other information** Further safety related physical-chemical data are not known.

### **SECTION 10. STABILITY AND REACTIVITY**

**10.1 Reactivity** Stable under normal conditions.

**10.2 Chemical stability** Stable under recommended storage conditions.

10.3 Possibility of No hazardous reactions when stored and handled according to

**hazardous reactions** prescribed instructions.

**10.4 Conditions to avoid** Extremes of temperature and direct sunlight.

**10.5 Incompatible materials** Store only in the original container.

10.6 Hazardous

decomposition products

No decomposition products expected under normal conditions of use.

#### SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 5,000 mg/kg

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Acute inhalation toxicity LC50 (Rat) > 3.125 mg/l

Exposure time: 4 h

Determined in the form of a respirable aerosol.

Highest attainable concentration.

Acute dermal toxicity LD50 (Rat) > 2,000 mg/kg

**Skin corrosion/irritation** No skin irritation (Rabbit)

Serious eye damage/eye

irritation

No eye irritation (Rabbit)

Respiratory or skin Skin: Sensitising (Mouse)

sensitisation OECD Test Guideline 429, local lymph node assay (LLNA)

#### Assessment mutagenicity

Isotianil was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

## **Assessment carcinogenicity**

Isotianil was not carcinogenic in lifetime feeding studies in rats and mice.

#### Assessment toxicity to reproduction

Isotianil did not cause reproductive toxicity in a two-generation study in rats.

#### Assessment developmental toxicity

Isotianil did not cause developmental toxicity in rats and rabbits.

### Assessment STOT Specific target organ toxicity - single exposure

Isotianil: Based on available data, the classification criteria are not met.

### Assessment STOT Specific target organ toxicity - repeated exposure

Isotianil did not cause specific target organ toxicity in experimental animal studies.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

### Information on likely routes of exposure

Harmful if inhaled.

Skin sensitiser

May cause eye irritation.

Harmful if swallowed.

## Early onset symptoms related to exposure

Refer to Section 4

### Delayed health effects from exposure

Refer to Section 11

### **Exposure levels and health effects**

Refer to Section 4

### Interactive effects

Not known

### When specific chemical data is not available

Not applicable

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Mixture of chemicals

Refer to Section 2.1

**Further information** 

No further toxicological information is available.

#### SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

**Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) > 100 mg/l

Exposure time: 96 h

Chronic toxicity to fish Pimephales promelas (fathead minnow)

NOEC: 0.0293 mg/l Exposure time: 35 d

The value mentioned relates to the active ingredient isotianil.

Toxicity to aquatic

**invertebrates** Exposure time: 48 h

Chronic toxicity to aquatic

invertebrates

EC10 (Daphnia magna (Water flea)): 0.187 mg/l

EC50 (Daphnia magna (Water flea)) > 100 mg/l

Exposure time: 21 d

The value mentioned relates to the active ingredient isotianil.

NOEC (Daphnia magna (Water flea)): 0.111 mg/l

Exposure time: 21 d

The value mentioned relates to the active ingredient isotianil.

**Toxicity to aquatic plants** ErC50 (Raphidocelis subcapitata (freshwater green alga)) > 100 mg/l

Growth rate; Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)) 6.25 mg/l

Growth rate; Exposure time: 72 h

12.2 Persistence and degradability

**Biodegradability** Isotianil:

Not rapidly biodegradable

12.3 Bioaccumulative potential

**Bioaccumulation** Isotianil:

Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Isotianil: Moderately mobile in soils

12.5 Other adverse effects

Additional ecological

information

No other effects to be mentioned.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If

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not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. Do not burn empty containers or product.

Do not reuse container for any other purpose.

### **SECTION 14. TRANSPORT INFORMATION**

**ADG** 

UN number 3082
Transport hazard class(es) 9
Subsidiary Risk None
Packaging group III

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(ISOTIANIL SOLUTION)

Hazchem Code •3Z

AU01: Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in;

a) packagings that do not incorporate a receptacle exceeding 500 kg(L); or

b) IBCs

**IMDG** 

UN number 3082
Transport hazard class(es) 9
Subsidiary Risk None
Packaging group III
Marine pollutant YES

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(ISOTIANIL SOLUTION)

**IATA** 

UN number 3082
Transport hazard class(es) 9
Subsidiary Risk None
Packaging group III
Environm. Hazardous Mark YES

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(ISOTIANIL SOLUTION)

#### SECTION 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994 Australian Pesticides and Veterinary Medicines Authority approval number: 89995

#### **SUSMP** classification (Poison Schedule)

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Schedule 6 (Standard for the Uniform Scheduling of Medicines and Poisons)

### **SECTION 16. OTHER INFORMATION**

**Trademark information** Routine® is a Registered Trademark of the Bayer Group.

### Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by

**Inland Waterways** 

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE Acute toxicity estimate

AU OEL Australia. OELs. (Adopted National Exposure Standards for Atmospheric

Contaminants in the Occupational Environment)

CAS-Nr. Chemical Abstracts Service number

CEILING Ceiling Limit Value Conc. Concentration

EC-No. European community number ECx Effective concentration to x %

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances

EN European Standard EU European Union

IATA International Air Transport Association

IBC International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk (IBC Code)
Inhibition concentration to x %

IMDG International Maritime Dangerous Goods

LCx Lethal concentration to x %

LDx Lethal dose to x %

**IC**x

LOEC/LOEL Lowest observed effect concentration/level

MARPOL: International Convention for the prevention of marine pollution from ships

N.O.S. Not otherwise specified

NOEC/NOEL No observed effect concentration/level

OECD Organization for Economic Co-operation and Development

OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure

Standard"

PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration

of a particular substance determined over the shortest analytically practicable period of

time which does not exceed 15 minutes.

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SK-SEN Skin sensitiser

SKIN\_DES SKIN\_DES: Skin notation: Absorption through the skin may be a significant source of

exposure.

STEL: Exposure standard - short term exposure limit (STEL): A 15 minute TWA

exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the

STEL.

TWA: Exposure standard - time-weighted average (TWA): The average airborne

concentration of a particular substance when calculated over a normal eight-hour

working day, for a five-day working week.

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TWA Time weighted average

UN United Nations

WHO World health organisation

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.