

Interface® Stressgard® Turf Fungicide

Version 2.1 / AUS Revision Date: 02.07.2024 102000021104 Print Date: 02.07.2024

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Trade name Interface® Stressgard® Turf Fungicide

Product code (UVP) 79653646, 81777721

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 2022 Environmental Science AU Pty Ltd

ABN 49 656 513 923

Address Suite 2.06, Level 2, 737 Burwood Road

Hawthorn East, Australia 3123

Telephone (03) 7019 3839

1.4 Emergency telephone no. +61 2 9037 2994

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Australian GHS Regulation

Carcinogenicity: Category 2

H351 Suspected of causing cancer.

Effects on or via lactation

H362 May cause harm to breast-fed children.

Acute aquatic toxicity: Category 1 H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1

H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to specific Australian legislation

Hazard label for supply/use required.



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Hazardous components which must be listed on the label:

Iprodione Trifloxystrobin

Signal word: Warning

Hazard statements

H351 Suspected of causing cancer.

H362 May cause harm to breast-fed children.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

| P201 | Obtain special instructions before use. |
|-------------|--|
| P202 | Do not handle until all safety precautions have been read and understood. |
| P260 | Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. |
| P263 | Avoid contact during pregnancy and while nursing. |
| P264 | Wash hands thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P308 + P313 | IF exposed or concerned: Get medical advice/ attention. |
| P405 | Store locked up |

Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

P501

No additional hazards known beside those mentioned.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Iprodione/Trifloxystrobin 256.40 : 16.00 g/l

Suspension concentrate (=flowable concentrate)(SC)

| Chemical name | CAS-No. | Concentration [%] |
|---|-------------|---------------------|
| Iprodione | 36734-19-7 | 23.10 |
| Trifloxystrobin | 141517-21-7 | 1.44 |
| (3R)-3-ethoxy-2-methylnonane | 78330-20-8 | >= 1.00 - <= 3.00 |
| 1,2-Propanediol | 57-55-6 | >= 1.00 - <= 5.00 |
| 1,2-Benzisothiazol-3(2H)-one | 2634-33-5 | >= 0.005 - <= 0.05 |
| 2-Methyl-2H-isothiazol-3-one | 2682-20-4 | >= 0.0015 - <= 0.10 |
| Other ingredients (non-hazardous) to 100% | | |



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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. Place and transport victim in stable

position (lying sideways). Remove contaminated clothing immediately

and dispose of safely.

Inhalation Move to fresh air. In case of respiratory arrest induce breathing with a

respiratory device. Seek medical advice. 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.

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

control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

To date no symptoms are known. **Symptoms**

4.3 Indication of any immediate medical attention and special treatment needed

Treatment 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 Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

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), Hydrogen fluoride, Hydrogen chloride (HCI),

Carbon monoxide (CO), Carbon dioxide (CO2), 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. Wear self-

contained breathing apparatus and protective suit.



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Further information Keep out of smoke. Fight fire from upwind position. Remove product

from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth. Do not allow runoff from fire fighting to enter drains or water courses. Avoid contact

with spilled product or contaminated surfaces.

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. Retain and dispose of contaminated wash water. If the product contaminates rivers and lakes or drains inform respective authorities.

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). Collect and transfer the product

into a properly labelled and tightly closed container. Clean

contaminated floors and objects thoroughly, observing environmental

regulations.

Additional advice Use personal protective equipment. If the product is accidentally

spilled, do not allow to enter soil, waterways or waste water canal.

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.

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

No special precautions required.

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, using the toilet or applying cosmetics. Remove and wash contaminated gloves, including the inside, before re-use. Keep working clothes separately. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must

be destroyed (burnt).



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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only. Keep away from direct sunlight. Protect from freezing.

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 |
|----------------------------------|-------------|----------------------------|---------|----------|
| Iprodione | 36734-19-7 | 1.7 mg/m3 (TWA) | | OES BCS* |
| Trifloxystrobin | 141517-21-7 | 2.7 mg/m3 (SK-SEN) | | 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.) | | , , | | |

^{*}OES BCS: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

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 mmProtective index Class 6

Directive Protective gloves complying with EN

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



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Skin and body protection Wear standard coveralls and Category 3 Type 6 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.

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 green

Odour musty

Odour Threshold No data available

4.0 - 7.0 (100 %) (23 °C) pН

Melting point/range No data available

Boiling Point

No data available

Flash point No flash point - Determination conducted up to the boiling point.

Flammability No data available **Auto-ignition temperature** No data available Thermal decomposition No data available

Not applicable Minimum ignition energy Self-accelarating

decomposition temperature

(SADT)

No data available

No data available **Upper explosion limit** Lower explosion limit No data available No data available Vapour pressure **Evaporation rate** No data available Relative vapour density No data available Relative density No data available **Density** 1.11 g/cm³ (20 °C)

Water solubility dispersible



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Partition coefficient: n-

octanol/water

Trifloxystrobin: log Pow: 4.5 (25 °C)

Viscosity, dynamic 550 - 1,000 cps (25 °C)

Viscosity, kinematic

Oxidizing properties

No data available

No data available

No data available

Not explosive

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 ofNo 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

Acute inhalation toxicity LC50 (Rat) > 2.56 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

highest concentration tested

Acute dermal toxicity LD50 (Rat) > 5,000 mg/kg
Skin corrosion/irritation No skin irritation (Rabbit)
Serious eye damage/eye slight irritation (Rabbit)

irritation

Respiratory or skin Skin: Non-sensitizing. (Guinea pig) **sensitisation** OECD Test Guideline 406, Buehler test

Skin: Non-sensitizing. (Mouse)

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

Assessment mutagenicity

Iprodione was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

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



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Assessment carcinogenicity

Iprodione caused at high dose levels an increased incidence of tumours in the following organ(s): Liver, Testes. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

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

Assessment toxicity to reproduction

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

Trifloxystrobin caused reduced body weight development in offspring during lactation only at doses also producing systemic toxicity in adult rats.

Assessment developmental toxicity

Iprodione caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Iprodione are related to maternal toxicity.

Trifloxystrobin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Trifloxystrobin are related to maternal toxicity.

Assessment STOT Specific target organ toxicity - single exposure

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

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

Assessment STOT Specific target organ toxicity - repeated exposure

Iprodione caused specific target organ toxicity in experimental animal studies in rats in the following organ(s): Adrenal gland.

Trifloxystrobin 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

Caution!

Harmful if swallowed., Avoid contact with skin, eyes and clothing., Wash thoroughly with soap and water after handling.

Avoid contact or inhalation of spray mist.

Harmful if swallowed., Do not take internally.

This product or its components may have target organ effects., This product or its components may have long term (chronic) health effects.

Toxic to fish and aquatic invertebrates.

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

Only acute toxicity studies have been performed on the formulated product.

The non-acute information pertains to the active ingredient(s).

No further toxicological information is available.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

LC50 (Oncorhynchus mykiss (rainbow trout)) 1.47 mg/l Toxicity to fish

Exposure time: 96 h

Toxicity to aquatic

invertebrates

EC50 (Daphnia magna (Water flea)) 0.6 mg/l

Exposure time: 48 h

LC50 (Mysidopsis bahia (mysid shrimp)) 0.00862 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient trifloxystrobin.

Toxicity to aquatic plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)) 5.32 mg/l Growth rate; Exposure time: 72 h

EC10 (Desmodesmus subspicatus (green algae)) 0.0025 mg/l

Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient trifloxystrobin.

LD50 (Apis mellifera (bees)) Toxicity to other organisms

Exposure time: 48 d Non-hazardous for bees.

12.2 Persistence and degradability

Biodegradability Iprodione:

Not rapidly biodegradable

Trifloxystrobin:

Not rapidly biodegradable

Iprodione: Koc: 202 - 543 Koc

Trifloxystrobin: Koc: 2377

12.3 Bioaccumulative potential

Bioaccumulation Iprodione: Bioconcentration factor (BCF) 70

Does not bioaccumulate.

Trifloxystrobin: Bioconcentration factor (BCF) 431

Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Iprodione: Moderately mobile in soils

Trifloxystrobin: Slightly mobile in soils

12.5 Other adverse effects

Additional ecological

information

No other effects to be mentioned.



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SECTION 13. DISPOSAL CONSIDERATIONS

Triple or preferably pressure rinse containers before disposal. Dispose of rinsings in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal 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.

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.

(IPRODIONE 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.

(IPRODIONE 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.

(IPRODIONE SOLUTION)



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SECTION 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994 Australian Pesticides and Veterinary Medicines Authority approval number: 68029

SUSMP classification (Poison Schedule)

Schedule 5 (Standard for the Uniform Scheduling of Medicines and Poisons)

SECTION 16. OTHER INFORMATION

Trademark information Interface® and Stressgard® are Registered Trademarks.

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 %

ICx

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 notation: Absorption through the skin may be a significant source of

exposure.



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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.

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.