

OBERON 1/10

 Version 2 / NZ
 Revision Date: 10.08.2022

 102000007775
 Print Date: 10.08.2022

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name OBERON Product code (UVP) 05544300

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

Use Insecticide EPA-Nr. HSR007691

1.3 Details of the supplier of the safety data sheet

**Supplier** Bayer New Zealand Limited

Crop Science Division B:HIVE Building 74 Taharoto Rd Smales Farm Takapuna Auckland, 0622 New Zealand

**Telephone** 0800 428 246

**Telefax** (09) 441 8645

1.4 Emergency telephone no.

**Emergency Number** 0800 734 607 (24hr)

Global Incident Response

Hotline (24h)

+1 (760) 476-3964 (Company 3E for Bayer AG, Crop Science Division)

# **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Notice 2020 as amended

6.5 B

H317 May cause an allergic skin reaction.

6.9 B

H373 May cause damage to organs through prolonged or repeated exposure.

9.1 A

H410 Very toxic to aquatic life with long lasting effects.



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#### 2.2 Label elements

# Labelling in accordance with the Hazardous Substances (Safety Data Sheets) Notice 2020 as amended

Hazard label for supply/use required.







# Signal word: Warning Hazard statements

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

## **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor/ physician. Specific treatment (see supplemental first aid instructions on this label).

P391 Collect spillage.

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**

## 3.2 Mixtures

## Chemical nature

Suspension concentrate (=flowable concentrate)(SC) Spiromesifen 240g/l

## **Hazardous components**

Chemical name	CAS-No.	Conc. [%]
Spiromesifen	283594-90-1	22.9
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 - < 0.0015
Glycerine	56-81-5	> 1

#### **Further information**

Spiromesifen	283594-90-1	M-Factor: 10 (acute)
1,2-Benzisothiazol-	2634-33-5	M-Factor: 1 (acute)
3(2H)-one		



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## **SECTION 4: FIRST AID MEASURES**

#### 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. 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.

**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.

Contact the National Poisons and Hazardous Chemicals Information center in Dunedin, PO Box 913, Physical Research (1990) 754 766)

Dunedin. Phone 0800 POISON (0800 764 766).

# **SECTION 5: FIREFIGHTING MEASURES**

## 5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or

mixture

In the event of fire the following may be released:, Carbon monoxide (CO)

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.



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## **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). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in

suitable, closed containers for disposal.

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.

**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.

Suitable materials HDPE (high density polyethylene)7.3 Specific end use(s) Refer to the label and/or leaflet.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Spiromesifen	283594-90-1	0.92 mg/m3 (SK-SEN)		OES BCS*
Glycerine (Mist.)	56-81-5	10 mg/m3 (TWA)	06 2016	NZ OEL



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

#### 8.2 Exposure controls

### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**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 enting

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

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 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.

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.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1 Information on basic physical and chemical properties

Form suspension
Colour grey white

Odour weak, characteristic
Odour Threshold No data available

**pH** 4.0 - 5.5 (100 %) (23 °C)

Melting point/range No data available



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Boiling Point No data available

Flash point > 100 °C

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

Flammability No data available

Auto-ignition temperature 410 °C

Minimum ignition energy No data available
Self-accelarating No data available

decomposition temperature

(SADT)

ino data avallable

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

**Density** ca.  $1.05 \text{ g/cm}^3 (20 \text{ °C})$ 

Water solubility miscible

Partition coefficient: n-

octanol/water

Spiromesifen: log Pow: 4.55 (20 °C)

Viscosity, dynamic

Viscosity, kinematic

Impact sensitivity

Oxidizing properties

No data available

No data available

No timpact sensitive.

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.



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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) > 2,500 mg/kgAcute inhalation toxicity LC50 (Rat) > 2.759 mg/l

Exposure time: 4 h

Determined in the form of a respirable aerosol.

Highest attainable concentration.

Acute dermal toxicity LD50 (Rat) > 4,000 mg/kgSkin corrosion/irritation No skin irritation (Rabbit) Serious eye damage/eye No eye irritation (Rabbit)

irritation

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

# Assessment STOT Specific target organ toxicity - single exposure

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

## Assessment STOT Specific target organ toxicity – repeated exposure

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

## Assessment mutagenicity

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

## Assessment carcinogenicity

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

### Assessment toxicity to reproduction

Spiromesifen caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Spiromesifen is related to parental toxicity.

## Assessment developmental toxicity

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

#### Aspiration hazard

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

## 11.2 Information on other hazards

#### **Endocrine disrupting properties**



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Assessment The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity

**Toxicity to fish** LC50 (Lepomis macrochirus (Bluegill sunfish)) 0.245 mg/l

Exposure time: 96 h

Toxicity to aquatic

EC50 (Daphnia magna (Water flea)) 68.7 mg/l

invertebrates

Exposure time: 48 h

**Toxicity to aquatic plants** IC50 (Raphidocelis subcapitata (freshwater green alga)) > 6.4 mg/l

Growth rate; Exposure time: 72 h

12.2 Persistence and degradability

Biodegradability Spiromesifen:

Not rapidly biodegradable

**Koc** Spiromesifen: Koc: 30900

12.3 Bioaccumulative potential

**Bioaccumulation** Spiromesifen: Bioconcentration factor (BCF) 545

Does not bioaccumulate.

12.4 Mobility in soil

**Mobility in soil** Spiromesifen: Immobile in soil

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment Spiromesifen: This substance is not considered to be persistent,

bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

12.6 Endocrine disrupting properties

Assessment The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Additional ecological

No other effects to be mentioned.

information

## **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods



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**Product** Dispose of this product only by using according to the label, or at an

approved landfill or other approved facility.

Contaminated packaging Triple rinse containers. Recycle if possible. If allowed under local

authority, burn if circumstances, especially wind direction permit, otherwise crush and bury in an approved local authority facility. Do not

use container for any other purpose.

## **SECTION 14: TRANSPORT INFORMATION**

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

## ADR/RID/ADN

14.1 UN number **3082** 

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(SPIROMESIFEN SOLUTION)

14.3 Transport hazard class(es) 9
14.4 Packaging Group III
14.5 Environm. Hazardous Mark YES
Hazchem Code 3Z

**IMDG** 

14.1 UN number **3082** 

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(SPIROMESIFEN SOLUTION)

14.3 Transport hazard class(es) 9
14.4 Packaging Group III
14.5 Marine pollutant YES

**IATA** 

14.1 UN number **3082** 

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(SPIROMESIFEN SOLUTION)

14.3 Transport hazard class(es)
14.4 Packaging Group
14.5 Environm. Hazardous Mark
YES

# 14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

## 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No transport in bulk according to the IBC Code.

#### **SECTION 15: REGULATORY INFORMATION**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture



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### **Further information**

HSNO approval-Nr. HSR007691

HSNO Controls See www.epa.govt.nz

ACVM Reg. P7567

ACVM Condition See www.foodsafety.govt.nz

#### **SECTION 16: OTHER INFORMATION**

## 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

CAS-Nr. Chemical Abstracts Service number

Conc. Concentration

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

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

TWA Time weighted average

UN United Nations

WHO World health organisation

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.

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