

Safety data sheet

Page: 1/12

BASF Safety data sheet
Date / Revised: 01.07.2025
Product: **Seclira® SG**

Version: 4.0

(30672378/SDS_CPA_SG/EN)

Date of print: 02.07.2025

1. Substance/preparation and manufacturer/supplier identification

Product name:
Seclira® SG

Use: insecticide

Manufacturer/supplier:

BASF (Malaysia) Sdn Bhd
Lot 19.02 Level 19, 1 Powerhouse
No 1 Persiaran Bandar Utama
47800 Petaling Jaya
Selangor D.E, MALAYSIA
Contact address:
BASF SEA Pte Ltd
7 Temasek Boulevard,
#35-01 Suntec Tower One, 038987
SINGAPORE
Telephone: +65 6 337-0330
Telefax number: +65 6 334-0330
E-mail address: carlos.mandia@basf.com

Emergency information:

Singapore Emergency Toll-Free Number:
Telephone: 1800-723-1361
International emergency number:
Telephone: +49 180 2273-112

2. Hazard identification

Classification of the substance and mixture:

Corrosive to metals: Cat.1

Hazardous to the aquatic environment - acute: Cat.1

Hazardous to the aquatic environment - chronic: Cat.1

BASF Safety data sheet
Date / Revised: 01.07.2025
Product: **Seclira® SG**

Version: 4.0

(30672378/SDS_CPA_SG/EN)

Date of print: 02.07.2025

Label elements and precautionary statement:

Pictogram:



Signal Word:

Warning

Hazard Statement:

H290	May be corrosive to metals.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statement:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

Precautionary Statements (Prevention):

P234	Keep only in original packaging.
------	----------------------------------

Precautionary Statements (Response):

P391	Collect spillage.
P390	Absorb spillage to prevent material damage.

Precautionary Statements (Storage):

P406	Store in a corrosion-resistant container with a resistant inner liner.
------	--

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
------	---

Other hazards which do not result in classification:

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

May form explosible dust-air mixture if dispersed

3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

crop protection product, insecticide

Hazardous ingredients

BASF Safety data sheet
Date / Revised: 01.07.2025
Product: **Seclira® SG**

Version: 4.0

(30672378/SDS_CPA_SG/EN)

Date of print: 02.07.2025

dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Content (W/W): 40 %

CAS Number: 165252-70-0

Acute Tox.: Cat. 4 (oral)

Acute Tox.: Cat. 5 (Inhalation - dust)

Acute Tox.: Cat. 5 (dermal)

Skin Irrit.: Cat. 3

Aquatic Acute: Cat. 1

Aquatic Chronic: Cat. 1

M-factor acute: 10

M-factor chronic: 10

Urea

Content (W/W): < 50 %

CAS Number: 57-13-6

Aquatic Acute: Cat. 2

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink 200-300 ml of water.

Note to physician:

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:

carbon dioxide

Specific hazards:

carbon monoxide, carbon dioxide, nitrogen oxides, acid halides

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.

Further information:

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. In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Avoid dust formation.

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: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

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. Avoid raising dust.

7. Handling and Storage

Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

Avoid dust formation. Dust can form an explosive 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.

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

Storage stability:

Storage duration: 36 Months

8. Exposure controls and personal protection

Components with occupational exposure limits

No substance specific occupational exposure limits known.

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed. Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. 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 EN 14605 in case of splashes or EN ISO 13982 in case of dust).

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. Wearing of closed work clothing is recommended. Keep away from food, drink and animal feeding stuffs. Store work clothing separately.

9. Physical and Chemical Properties

Form:	solid
Colour:	white
Odour:	odourless
Odour threshold:	not applicable, odour not perceivable
pH value:	approx. 5 - 7 (water, 1 %(m), 22.8 °C)
melting range:	78 - 109 °C
Boiling point:	The product has not been tested.
Flash point:	not applicable, the product is a solid
Evaporation rate:	not applicable
Flammability (solid/gas):	not flammable

BASF Safety data sheet
 Date / Revised: 01.07.2025
 Product: **Seclira® SG**

Version: 4.0

(30672378/SDS_CPA_SG/EN)

Date of print: 02.07.2025

Lower explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Upper explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Ignition temperature:

not applicable, the product is a solid

Thermal decomposition: 150 °C , 240 kJ/kg
 (onset temperature)

210 °C , 100 kJ/kg
 (onset temperature)

310 °C , 460 kJ/kg
 (onset temperature)

Self ignition:

not self-igniting

Test type: Spontaneous self-ignition at room-temperature.

Self heating ability:

It is not a substance capable of spontaneous heating.

SADT:

> 75 °C

Explosion hazard:

not explosive

Fire promoting properties:

not fire-propagating

Vapour pressure:

not applicable

Density:

No data available.

Relative density:

No data available.

Bulk density:

approx. 0.51 g/ml

Relative vapour density (air):

not determined

Solubility in water:

dispersible

Partitioning coefficient n-octanol/water (log Pow):

The statements are based on the properties of the individual components.

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Partitioning coefficient n-octanol/water (log Pow): -0.549
 (25 °C)

BASF Safety data sheet
Date / Revised: 01.07.2025
Product: **Seclira® SG**

Version: 4.0

(30672378/SDS_CPA_SG/EN)

Date of print: 02.07.2025

Viscosity, dynamic: not applicable, the product is a solid
Viscosity, kinematic: not applicable, the product is a solid

Particle characteristics

Particle size distribution: No data available. -

Specific Surface Area: No data available.

Particle Shape: No data available.

Dustiness: No data available.

10. Stability and Reactivity

Conditions to avoid:
See SDS section 7 - Handling and storage.

Thermal decomposition: 150 °C, 240 kJ/kg
(onset temperature)

Thermal decomposition: 210 °C, 100 kJ/kg
(onset temperature)

Thermal decomposition: 310 °C, 460 kJ/kg
(onset temperature)

Substances to avoid:
strong oxidizing agents, strong acids, strong bases

Corrosion to metals: Corrosive effect on metals.

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.

Chemical stability:
The product is stable if stored and handled as prescribed/indicated.

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

11. Toxicological Information

Routes of exposure

Acute oral toxicity

Experimental/calculated data:
LD50rat (oral): > 5,000 mg/kg

Acute inhalation toxicity

LC50 rat (by inhalation): > 5.09 mg/l 4 h
No mortality was observed. An aerosol was tested.

Acute dermal toxicity

LD50 rat (dermal): > 5,000 mg/kg

Assessment of acute toxicity

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Symptoms

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.
(Further) symptoms and / or effects are not known so far

Irritation

Assessment of irritating effects:
Not irritating to eyes and skin.

Experimental/calculated data:
Skin corrosion/irritation rabbit: non-irritant

Serious eye damage/irritation rabbit: non-irritant

Respiratory/Skin sensitization

Assessment of sensitization:
No sensitizing effect.

Experimental/calculated data:
Buehler test guinea pig: Non-sensitizing.

Germ cell mutagenicity

Assessment of mutagenicity:
Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity

Assessment of carcinogenicity:
The results of various animal studies gave no indication of a carcinogenic effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Experimental/calculated data:
No data available.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Experimental/calculated data:

No data available.

Developmental toxicity**Assessment of teratogenicity:**

Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. The product has not been tested. The statement has been derived from the properties of the individual components.

Specific target organ toxicity (single exposure)

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**Assessment of repeated dose toxicity:**

No substance-specific organotoxicity was observed after repeated administration to animals. The product has not been tested. The statement has been derived from the properties of the individual components.

Experimental/calculated data:

No data available.

Aspiration hazard

not applicable

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information**Ecotoxicity****Assessment of aquatic toxicity:**

Very toxic to aquatic life with long lasting effects.

The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish:

No data available.

BASF Safety data sheet
Date / Revised: 01.07.2025
Product: **Seclira® SG**

Version: 4.0

(30672378/SDS_CPA_SG/EN)

Date of print: 02.07.2025

Aquatic invertebrates:
No data available.

Aquatic plants:
No data available.

Microorganisms/Effect on activated sludge:
No data available.

Chronic toxicity to fish:
No data available.

Chronic toxicity to aquatic invertebrates:
No data available.

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine
Toxicity to fish:
LC50 (96 h) > 100 mg/l, *Cyprinus carpio*

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine
Aquatic invertebrates:
EC50 (48 h) > 1,000 mg/l, *Daphnia magna*

EC50 (96 h) 0.79 mg/l, *Mysidopsis bahia*

LC50 (48 h) 0.0721 mg/l, *Chironomus riparius*

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine
Aquatic plants:
EC50 (72 h) 97.6 mg/l (biomass), *Pseudokirchneriella subcapitata*

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine
Chronic toxicity to aquatic invertebrates:
No observed effect concentration (27 d), 0.003 mg/l, *Chironomus riparius*

Mobility

Assessment transport between environmental compartments:
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine
Assessment transport between environmental compartments:
Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine
Assessment biodegradation and elimination (H₂O):
Not readily biodegradable (by OECD criteria).

Bioaccumulation potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine
Assessment bioaccumulation potential:
Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal Considerations

Must be sent to a suitable incineration plant, observing local regulations.

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

Domestic transport:

UN number or ID number:	UN 1759
UN proper shipping name:	CORROSIVE SOLID, N.O.S. (UREA, DINOTEFURAN)
Transport hazard class(es):	8, EHSM
Packing group:	III
Environmental hazards:	yes

Special precautions for user:	None known
-------------------------------	------------

Sea transport

IMDG

UN number or ID number:	UN 1759
UN proper shipping name:	CORROSIVE SOLID, N.O.S. (UREA, DINOTEFURAN)
Transport hazard class(es):	8, EHSM
Packing group:	III

BASF Safety data sheet
Date / Revised: 01.07.2025
Product: **Seclira® SG**

Version: 4.0

(30672378/SDS_CPA_SG/EN)

Date of print: 02.07.2025

Environmental hazards:	yes
Special precautions for user:	Marine pollutant: YES EmS: F-A; S-B

Air transport

IATA/ICAO

UN number or ID number:	UN 1759
UN proper shipping name:	CORROSIVE SOLID, N.O.S. (UREA, DINOTEFURAN)
Transport hazard class(es):	8
Packing group:	III
Environmental hazards:	No Mark as dangerous for the environment is needed
Special precautions for user:	None known

Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

15. Regulatory Information**Other regulations**

To avoid risks to man and the environment, comply with the instructions for use.

16. Other Information

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

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.