

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



PROMINO 300 EC

Version	Revision Date:	SDS Number:	Date of last issue: 24.12.2022
4.0	28.02.2023	0000000000001074 11	Date of first issue: 05.05.2021
		Region: FR	Print Date: 03.08.2023
		Language: EN	

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : PROMINO 300 EC
Product code : 000000000000107411

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

Use of the Sub-
stance/Mixture : Fungicide
Uses advised against : No data available.

1.3 Details of the supplier of the safety data sheet

Company : HELM AG
Nordkanalstrasse 28
20097 Hamburg
Telephone : +49/4023750
Telefax : +49/4023751845
E-mail address of person
responsible for the SDS : SDB@HELMAG.COM

1.4 Emergency telephone number

For medical advice:
01 45 42 59 59 (Emergency Center France)
+44 1865 407333 (NCEC, National Chemical Emergency Centre)
In case of transport incidents and other emergencies:
+44 1865 407333 (NCEC, National Chemical Emergency Centre)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :   
GHS05 GHS07 GHS09

Signal word : Danger

Hazard statements : H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P391 Collect spillage.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label : 1-butylpyrrolidin-2-one
: 1-OCTYL-2-PYRROLIDONE

Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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Ecological information: 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.

Toxicological information: 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 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
1-butylpyrrolidin-2-one	3470-98-2 222-437-8 01-2120062728-48	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 30 - < 50
prothioconazole	178928-70-6 613-337-00-9	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	>= 25 - < 30
1-OCTYL-2-PYRROLIDONE	2687-94-7 403-700-8 613-098-00-0	Skin Corr. 1B; H314 Aquatic Chronic 2; H411	>= 5 - < 10

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Take off all contaminated clothing immediately.
Call a doctor immediately if allergic signs, particularly in the respiratory tract, are observed.
When symptoms persist or in all cases of doubt seek medical

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-
- advice.
- If inhaled : If inhaled, remove to fresh air.
- In case of skin contact : Call a physician immediately.
- In case of eye contact : Call a physician immediately.
- If swallowed : Drink plenty of water.
Call a physician immediately.
- Rinse mouth with water.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
- In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Wash contaminated clothing before reuse.
If skin irritation persists, call a physician.
- In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Protect unharmed eye.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Ingestion may provoke the following symptoms:
Nausea
Vomiting
Diarrhoea
Skin contact may provoke the following symptoms:
- Eye contact may provoke the following symptoms
Eye damage
Redness
tearing
Pain
- Skin contact may provoke the following symptoms:
Irritation
Itching
Redness
Pain
- Risks : Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.

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4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO₂)
Water spray

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : No hazardous combustion products are known

In the event of fire, the following can be released:
Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)
Sulphur oxides
Chlorine compounds

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Do not allow uncontrolled discharge of product into the environment.
Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

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6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

Information regarding safe handling, see chapter 7. For personal protection see section 8. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Handle with care. Avoid inhalation, ingestion and contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

Hygiene measures : Avoid contact with skin, eyes and clothing. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and at the end of workday. Wash hands before eating, drinking, or smoking.

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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers.

Advice on common storage : Substances to be avoided, pls. See chapter 10.

Storage period : ≥ 2 yr

Recommended storage temperature : 0 - 30 °C

7.3 Specific end use(s)

Specific use(s) : No data available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
1-butylpyrrolidin-2-one	Workers	Inhalation	Long-term exposure, Chronic effects, Systemic effects	24,1 mg/m ³
	Workers	Dermal	Long-term exposure, Chronic effects, Systemic effects	10 mg/kg bw/day
	Consumers	Inhalation	Long-term exposure, Chronic effects, Systemic effects	4,29 mg/m ³
	Consumers	Dermal	Long-term exposure, Chronic effects, Systemic effects	5 mg/kg bw/day
	Consumers	Oral	Long-term exposure, Chronic effects, Systemic effects	4 mg/kg bw/day
	Consumers	Oral	Short-term exposure, Acute effects, Systemic effects	4 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
1-butylpyrrolidin-2-one	Fresh water	4 mg/l
	Marine water	0,4 mg/l
	Fresh water sediment	29,6 mg/kg dry weight (d.w.)
	Other environmental compartments	2,96 mg/kg dry weight (d.w.)
	Aqua intermittent	1 mg/l
	Soil	3,57 mg/kg dry weight (d.w.)
	Sewage treatment plant	30,62 mg/l

8.2 Exposure controls

Engineering measures

Effective exhaust ventilation system

Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Tightly fitting safety goggles
Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.

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Equipment should conform to EN 166

- | | |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hand protection | |
| Remarks | : Protective gloves complying with EN 374. Gloves must be inspected prior to use. 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. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. |
| Skin and body protection | : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Preventive skin protection |
| Respiratory protection | : Apply technical measures to comply with the occupational exposure limits.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. |
| Protective measures | : Ensure that eye flushing systems and safety showers are located close to the working place. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | |
|-------------------------------|---------------------|
| Physical state | : liquid |
| Colour | : amber, brown |
| Odour | : aromatic |
| Odour Threshold | : No data available |
| Melting point/freezing point | : No data available |
| Boiling point/boiling range | : No data available |
| Upper explosion limit / Upper | : No data available |

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flammability limit

Lower explosion limit / Lower flammability limit : No data available

Flash point : > 100 °C
Method: ASTM D7094

Auto-ignition temperature : No data available

pH : 5,1 - 5,2
(aqueous suspension)

Viscosity

Viscosity, dynamic : 158 mPa.s (20 °C)
36 mPa.s (40 °C)

Viscosity, kinematic : 148 mm²/s (20 °C)
34 mm²/s (40 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Vapour pressure : No data available

Relative density : No data available

Density : 1,07 g/cm³
Source: supplier

Relative vapour density : No data available

Particle characteristics

Particle size : Not applicable

9.2 Other information

Explosives : Not explosive
Method: OECD Test Guideline 113

Oxidizing properties : not oxidizing
Based on physical and chemical properties

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Self-ignition	:	232 °C
		Method: ASTM E 659
		232 °C
		Method: Regulation (EC) No. 440/2008, Annex, A.15

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

None, when used as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg
Remarks: Source: supplier

Acute toxicity estimate: 870,7 mg/kg
Method: Calculation method

Components:

1-butylpyrrolidin-2-one, CAS: 3470-98-2, EINECS: 222-437-8

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Acute oral toxicity : LD50 (Rat): > 300 - 2.000 mg/kg
Method: OECD Test Guideline 423
Remarks: Source: ECHA

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402
Remarks: Source: ECHA

Skin corrosion/irritation

Causes skin irritation.

Product:

Species : Human Skin Model
Exposure time : 60 min
Method : OECD Test Guideline 439
Result : irritating

Species : Human Skin Model
Method : OECD Test Guideline 431
Result : Not corrosive

Components:

1-butylpyrrolidin-2-one, CAS: 3470-98-2, EINECS: 222-437-8

Species : Rabbit
Method : OECD Test Guideline 404
Result : low-irritant
Remarks : Source: ECHA

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Species : Chicken eye
Method : OECD Test Guideline 438
Result : Corrosive

Components:

1-butylpyrrolidin-2-one, CAS: 3470-98-2, EINECS: 222-437-8

Species : Rabbit
Method : OECD Test Guideline 405
Result : irritant
Remarks : Source: ECHA

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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

1-butylpyrrolidin-2-one, CAS: 3470-98-2, EINECS: 222-437-8:

Exposure routes	:	Dermal
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	non-sensitizing
Remarks	:	Source: ECHA

Germ cell mutagenicity

Not classified based on available information.

Components:

1-butylpyrrolidin-2-one, CAS: 3470-98-2, EINECS: 222-437-8

Germ cell mutagenicity- Assessment	:	Based on available data, the classification criteria are not met.
Remarks	:	Source: ECHA

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

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.
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SECTION 12: Ecological information

12.1 Toxicity

Product:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 9,15 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna Straus): 12,14 mg/l
Exposure time: 48 h
Test Type: Immobilization
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): 3 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201

Components:

1-butylpyrrolidin-2-one, CAS: 3470-98-2, EINECS: 222-437-8

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Source: ECHA
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Source: ECHA
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata): > 160 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Source: ECHA
- Toxicity to fish (Chronic toxicity) : NOEC: 82 mg/l
Exposure time: 33 d
Species: Pimephales promelas (fathead minnow)
Method: OECD Test Guideline 210
Remarks: Source: ECHA
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 100 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

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Remarks: Source: ECHA

prothioconazole (ISO), CAS: 178928-70-6

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

12.2 Persistence and degradability

Components:

1-butylpyrrolidin-2-one, CAS: 3470-98-2, EINECS: 222-437-8

Biodegradability : Result: Biodegradable
Method: OECD Test Guideline 302B
Remarks: Source: ECHA

12.3 Bioaccumulative potential

Components:

1-butylpyrrolidin-2-one, CAS: 3470-98-2, EINECS: 222-437-8

Partition coefficient: n-octanol/water : log Pow: 1,265 (20 °C)
Method: OECD Test Guideline 117
Remarks: Source: ECHA

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

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.

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12.7 Other adverse effects

Product:

Environmental fate and pathways : Do not discharge into the drains or waters and do not store on public depositories.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : In accordance with local and national regulations.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Avoid discharge to drain or surface water.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.

SECTION 14: Transport information

14.1 UN number or ID number

ADN	: UN 3082
ADR	: UN 3082
RID	: UN 3082
IMDG	: UN 3082
IATA	: UN 3082

14.2 UN proper shipping name

ADN	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (prothioconazole)
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (prothioconazole)
RID	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (prothioconazole)
IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (prothioconazole)
IATA	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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(prothioconazole)

14.3 Transport hazard class(es)

ADN	:	9
ADR	:	9
RID	:	9
IMDG	:	9
IATA	:	9

14.4 Packing group

ADN
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

ADR
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID
Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG
Packing group : III
Labels : 9
EmS Code : F-A, S-F

IATA (Cargo)
Packing instruction (cargo aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous Dangerous Goods

IATA (Passenger)
Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous Dangerous Goods

14.5 Environmental hazards

ADN

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Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not listed

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not listed

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not listed

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not listed

Seveso III: Directive 2012/18/EU of the Euro- E1 ENVIRONMENTAL HAZARDS

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4.0	28.02.2023	0000000000001074	Date of first issue: 05.05.2021
		11	Print Date: 03.08.2023
		Region: FR	
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pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Occupational Illnesses (R-461-3, France) : Not applicable

Installations classified for the protection of the environment (Environment Code R511-9) : 4510

Other regulations:

Adhere to the national sanitary and occupational safety regulations when using this product.

The components of this product are reported in the following inventories:

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: Not in compliance with the inventory
DSL	: This product contains one or several components that are not on the Canadian DSL nor NDSL.
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

Regulation (EC) Nr. 1107/2009 concerning the placing of plant protection products on the market

SP1 Do not contaminate the water with the product or its packaging. (Do not wash application equipment near surface water). Do not discharge water through sewers form farms and roads.

SPe 3 To protect aquatic organisms, respect an untreated zone of 20 meters including a permanent untreated vegetated device 5 meters wide at the edge of water points, for uses on wheat and spring triticale for applications between BBCH 61 and BBCH 69 stages, on wheat, triticale, "barley",

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spring rye at one application and winter rye for applications between the BBCH 30 and BBCH 61 stages.

SPe 3 To protect aquatic organisms, respect an untreated zone of 20 meters including a permanent untreated vegetated device 20 meters wide

SPe 3 To protect aquatic organisms, respect an untreated zone of 5 meters from water points for use on spring rapeseed.

SPe 3 To protect aquatic organisms, respect an untreated zone of 5 meters comprising a permanent untreated planted device 5 meters wide at the edge of water points for uses on wheat, winter triticale for applications between BBCH 61 and BBCH 69 and winter "cruciferous oilseed" stages.

May be hazardous to bees. Application possible during flowering and on foraging areas according to the conditions set by the decree of November 20, 2021 for uses characterized by "possible use".

Spa 1 To avoid the development of resistance of septoria wilt in wheat and helminthosporiosis in barley to the active substance prothioconazole, the number of applications of the product is limited to a maximum of 1 application per crop cycle on wheat, triticale and barley.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the Safety Data Sheet

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case. EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of H-Statements

H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H319	: Causes serious eye irritation.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.

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H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Irrit.	: Eye irritation
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information : Safety data sheet according to regulation (EC) No. 2020/878

Classification of the mixture:

Acute Tox. 4	H302
Skin Irrit. 2	H315

Classification procedure:

Calculation method
Based on product data or assessment

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Eye Dam. 1	H318	Based on product data or assessment
Aquatic Chronic 1	H410	Calculation method

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The safety data sheet describes products with a view to safety requirements. It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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