

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EC) No. 1272/2008 (CLP)

according to Regulation (EU) No. 2015/830

Trade name : **HINT**
Revision date : 25/01/2022
Print date : 26/04/2022

Version : 1.0.1

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

1.1 Product identifier

HINT

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

Relevant identified uses

Fungicides for plant protection

Uses advised against

Not for uses different from those mentioned.

1.3 Details of the supplier of the safety data sheet

Supplier

Finchimica SpA

Street : Via Lazio, 13

Postal code/city : 25025 Manerbio Italia

Telephone : (0039) 030938901

Telefax : (0039) 0309389201

Information contact : MSDS@finchimica.it

1.4 Emergency telephone number

National non-emergency medical number +44111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 1 ; H410 - Hazardous to the aquatic environment : Chronic 1 ; Very toxic to aquatic life with long lasting effects.

Acute Tox. 4 ; H332 - Acute toxicity (inhalative) : Category 4 ; Harmful if inhaled.

Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Repr. 2 ; H361d - Reproductive toxicity : Category 2 ; Suspected of damaging the unborn child.

STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.

STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Warning

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Hazard components for labelling

N,N-dimethyldecanamide ; CAS No. : 14433-76-2

SPIROXAMINE (ISO) ; CAS No. : 118134-30-8

Hazard statements

H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H302 Harmful if swallowed.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.
P391 Collect spillage.
P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site.

Special rules for supplemental label elements for certain mixtures

EUH208 Contains SPIROXAMINE (ISO) ; PROTHIOCONAZOLE. May produce an allergic reaction.

Special rules for labelling of plant protection products

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

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

N,N-dimethyldecanamide ; REACH No. : 01-2119485027-36-0006 ; EC No. : 238-405-1; CAS No. : 14433-76-2

Weight fraction : $\geq 35 - < 40$ %

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 Aquatic Chronic 3 ; H412

SPIROXAMINE (ISO) ; CAS No. : 118134-30-8 (M=100)

Weight fraction : $\geq 30 - < 35$ %

Classification 1272/2008 [CLP] : Repr. 2 ; H361d STOT RE 2 ; H373 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

PROTHIOCONAZOLE ; EC No. : 605-841-2; CAS No. : 178928-70-6 (M Acute=10) (M Chronic=1)

Weight fraction : $\geq 15 - < 20$ %

Classification 1272/2008 [CLP] : Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Additional information

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician. After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove victim out of the danger area.

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4.2 Most important symptoms and effects, both acute and delayed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing media alcohol resistant foam Carbon dioxide (CO₂) Water mist

Unsuitable extinguishing media

No information available.

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Pyrolysis products, toxic

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Do not inhale explosion and combustion gases. Remove persons to safety.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Clear spills immediately.

For non-emergency personnel

Wear a self-contained breathing apparatus and chemical protective clothing. Remove persons to safety.

For emergency responders

No information available.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up

For containment

Collect in closed and suitable containers for disposal.

For cleaning up

The contaminated area should be cleaned up immediately with: Water Soak up inert absorbent and dispose as waste requiring special attention. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Avoid dust formation.

6.4 Reference to other sections

Disposal: see section 13 Personal protection equipment: see section 8 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

When using do not eat, drink, smoke, sniff. Wear personal protection equipment (refer to section 8).

Measures to prevent aerosol and dust generation

Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray. Do not breathe dust.

Environmental precautions

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No information available.

Specific requirements or handling rules

Handle with care - avoid bumps, friction and impact. Handle and open container with care.

Advices on general occupational hygiene

No information available.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in a cool, well-ventilated place. Protect against UV-radiation/sunlight Humidity.

Requirements for storage rooms and vessels

Only use containers specifically approved for the substance/product.

Hints on joint storage

Store at least 3 metres apart from: Chemicals/products that react together readily

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL-/PNEC-values

DNEL/DMEL

Limit value type : DNEL Consumer (systemic) (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 14,29 mg/kg bw/day

Limit value type : DNEL Consumer (systemic) (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 50 mg/m³

Limit value type : DNEL Consumer (systemic) (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 14,29 mg/kg bw/day

Limit value type : DNEL worker (systemic) (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 23,81 mg/kg bw/day

Limit value type : DNEL worker (systemic) (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 166,67 mg/m³

PNEC

Limit value type : PNEC (Aquatic, freshwater) (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Exposure route : Water (Including sewage plant)
Limit value : 0,028 mg/l

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Limit value type :	PNEC (Aquatic, intermittent release) (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Exposure route :	Water (Including sewage plant)
Limit value :	0,077 mg/l
Limit value type :	PNEC (Aquatic, marine water) (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Exposure route :	Water (Including sewage plant)
Limit value :	0,0028 mg/l
Limit value type :	PNEC (Aquatic, marine water) (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Exposure route :	Water (Including sewage plant)
Limit value :	0,0335 mg/kg dw
Limit value type :	PNEC (Sediment, freshwater) (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Limit value :	0,335 mg/kg dw
Limit value type :	PNEC (Soil) (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Exposure route :	Soil
Limit value :	5,3 mg/kg dw
Limit value type :	PNEC (Sewage treatment plant) (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Limit value :	2,12 mg/l

8.2 Exposure controls

Only wear fitting, comfortable and clean protective clothing.

Personal protection equipment

Eye/face protection

Eye glasses with side protection DIN EN 166

Skin protection

Hand protection

Tested protective gloves must be worn EN ISO 374 The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Body protection

Full protection suit Wash contaminated clothing prior to re-use.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Thermal hazards

No information available.

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid
Colour : dark yellow

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Odour : characteristic

Safety characteristics

Melting point/freezing point :			No data available		
Initial boiling point and boiling range :			No data available		
Decomposition temperature :			No data available		
Flash point :			No data available		
Auto-ignition temperature :			No data available		
Oxidizing properties			Not oxidizing		
Lower explosion limit :			No data available		
Upper explosion limit :			No data available		
Vapour pressure :	(50 °C)		No data available		
Density :	(20 °C)		0,983	g/mL	
Relative density :	(20 °C)		No data available		
Water solubility			Emulsifiable		
pH :			7,1		
pH (aqueous 1%)			7,9		
log P O/W :			No data available		
Flow time :	(20 °C)	>	90	s	DIN-cup 4 mm
Viscosity	(40 °C)		24,96	mPa*s	
Viscosity :	(20 °C)		63,77	mPa*s	
Cinematic viscosity :	(40 °C)		25,4	mm ² /s	
Cinematic viscosity (20°C; mm²/s)	(20 °C)		64,9	mm ² /s	
Odour threshold :			No data available		
Evaporation rate :			No data available		
Flammable solids :	No data available.				
Flammable gases :	No data available.				
Explosive properties :	Not explosive according to EU A.14.				

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

Safe handling: see section 7

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

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11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Parameter :	LD50
Exposure route :	Oral
Species :	Rat
Effective dose :	500 - 1000 mg/kg
Parameter :	LD50 (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 420
Parameter :	LD50 (SPIROXAMINE (ISO) ; CAS No. : 118134-30-8)
Exposure route :	Oral
Species :	rat male
Effective dose :	595 mg/kg bw
Parameter :	LD50 (SPIROXAMINE (ISO) ; CAS No. : 118134-30-8)
Exposure route :	Oral
Species :	rat female
Effective dose :	500 - 560 mg/kg bw
Parameter :	LD50 (PROTHIOCONAZOLE ; CAS No. : 178928-70-6)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 6200 mg/kg

Acute dermal toxicity

Parameter :	LD50
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 4000 mg/kg
Parameter :	LD50 (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 5000 mg/kg
Parameter :	LD50 (SPIROXAMINE (ISO) ; CAS No. : 118134-30-8)
Exposure route :	Dermal
Species :	rat male
Effective dose :	> 1600 mg/kg bw
Parameter :	LD50 (SPIROXAMINE (ISO) ; CAS No. : 118134-30-8)
Exposure route :	Dermal
Species :	rat female
Effective dose :	1068 mg/kg bw

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Parameter : LD50 (PROTHIOCONAZOLE ; CAS No. : 178928-70-6)
Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg

Acute inhalation toxicity

Parameter : LC50
Exposure route : Inhalation
Species : Rat
Effective dose : 2,2 mg/l
Exposure time : 4 hour(s)

Parameter : LD50 (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Exposure route : Inhalation
Species : Rat
Effective dose : > 3550,7 mg/m³
Method : OECD 403

Parameter : LC50 (SPIROXAMINE (ISO) ; CAS No. : 118134-30-8)
Exposure route : Inhalation
Species : rat male
Effective dose : 2772 mg/m³
Exposure time : 4 hour(s)

Parameter : LC50 (SPIROXAMINE (ISO) ; CAS No. : 118134-30-8)
Exposure route : Inhalation
Species : rat female
Effective dose : 1982 mg/m³
Exposure time : 4 hour(s)

Parameter : LC50 (PROTHIOCONAZOLE ; CAS No. : 178928-70-6)
Exposure route : Inhalation
Species : Rat
Effective dose : > 4990 mg/m³
Exposure time : 4 hour(s)

Corrosion

Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

No information available.

Respiratory or skin sensitisation

No information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No information available.

Germ cell mutagenicity

No information available.

Reproductive toxicity

Adverse effects on developmental toxicity

Parameter : NOAEL(C) (SPIROXAMINE (ISO) ; CAS No. : 118134-30-8)

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Species : Rat
Effective dose : 30 mg/kg bw/day

Reproductive toxicity

One generation reproduction toxicity test

Parameter : NOAEL(C) (SPIROXAMINE (ISO) ; CAS No. : 118134-30-8)
Effective dose : 21 mg/kg bw/day

STOT-single exposure

No information available.

STOT-repeated exposure

No information available.

Aspiration hazard

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter :	LC50
Species :	Oncorhynchus mykiss (Rainbow trout)
Effective dose :	6,57 mg/l
Exposure time :	96 hour(s)
Parameter :	LC50 (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Species :	Brachydanio rerio (zebra-fish)
Effective dose :	14,8 mg/l
Method :	OECD 203
Parameter :	LC50 (SPIROXAMINE (ISO) ; CAS No. : 118134-30-8)
Species :	Brachydanio rerio (zebra-fish)
Effective dose :	2,41 mg/l
Exposure time :	96 hour(s)
Parameter :	LC50 (PROTHIOCONAZOLE ; CAS No. : 178928-70-6)
Species :	Oncorhynchus mykiss (Rainbow trout)
Effective dose :	1,83 mg/l
Exposure time :	96 hour(s)
Parameter :	LC50 (PROTHIOCONAZOLE ; CAS No. : 178928-70-6)
Species :	Lepomis macrochirus (Bluegill)
Effective dose :	4,59 mg/l
Exposure time :	96 hour(s)
Parameter :	LC50 (PROTHIOCONAZOLE ; CAS No. : 178928-70-6)
Species :	Cyprinus carpio (Common Carp)
Effective dose :	6,91 mg/l
Exposure time :	96 hour(s)

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Chronic (long-term) fish toxicity

Parameter : NOEC (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Species : Brachydanio rerio (zebra-fish)
Effective dose : >= 0,71 mg/l
Exposure time : 35 day(s)
Method : OECD 210

Parameter : NOEC (PROTHIOCONAZOLE ; CAS No. : 178928-70-6)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : 0,308 mg/l

Acute (short-term) toxicity to crustacea

Parameter : EC50
Species : Daphnia magna (Big water flea)
Effective dose : 6,3 mg/l
Exposure time : 48 hour(s)

Parameter : LC50 (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Species : Daphnia magna (Big water flea)
Effective dose : 7,7 mg/l
Exposure time : 48 hour(s)

Parameter : EC50 (SPIROXAMINE (ISO) ; CAS No. : 118134-30-8)
Species : Daphnia magna (Big water flea)
Effective dose : 3 mg/l
Exposure time : 48 hour(s)

Parameter : EC50 (PROTHIOCONAZOLE ; CAS No. : 178928-70-6)
Species : Daphnia magna (Big water flea)
Effective dose : 1,3 mg/l
Exposure time : 48 hour(s)

Chronic (long-term) toxicity to crustacea

Parameter : NOEC (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Species : Daphnia magna (Big water flea)
Effective dose : 0,28 mg/l
Exposure time : 21 day(s)

Parameter : NOEC (PROTHIOCONAZOLE ; CAS No. : 178928-70-6)
Species : Daphnia magna (Big water flea)
Effective dose : 0,56 mg/l

Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter : IC50
Species : Chlorella vulgaris
Effective dose : 0,166 mg/l
Exposure time : 72 hour(s)

Parameter : EC50 (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Species : Selenastrum capricornutum
Effective dose : 16,06 mg/l
Method : OECD 201

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Parameter : ErC50 (PROTHIOCONAZOLE ; CAS No. : 178928-70-6)
Species : Pseudokirchneriella subcapitata
Effective dose : 2,18 mg/l
Exposure time : 72 hour(s)

Toxicity to other aquatic plants/organisms

Parameter : EC50 (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Effective dose : 212300 µg/l
Exposure time : 3 hour(s)

Parameter : NOEC (N,N-dimethyldecanamide ; CAS No. : 14433-76-2)
Effective dose : 530 mg/kg dw
Exposure time : 28 day(s)

Parameter : ErC50 (SPIROXAMINE (ISO) ; CAS No. : 118134-30-8)
Species : Skeletonema costatum
Effective dose : 0,0063 mg/l
Exposure time : 96 hour(s)

Parameter : ErC50 (SPIROXAMINE (ISO) ; CAS No. : 118134-30-8)
Species : Desmodesmus subspicatus
Effective dose : 0,012 mg/l
Exposure time : 72 hour(s)

Terrestrial toxicity

Toxicity to terrestrial arthropods

Insect toxicity

Parameter : LD50 (SPIROXAMINE (ISO) ; CAS No. : 118134-30-8) ORAL
Species : Apis mellifera (bee)
Effective dose : > 100 µg/bee

Parameter : LD50 (SPIROXAMINE (ISO) ; CAS No. : 118134-30-8) DERMAL
Species : Apis mellifera (bee)
Effective dose : > 4,2 µg/bee

Parameter : LD50 (PROTHIOCONAZOLE ; CAS No. : 178928-70-6) DERMAL
Species : Apis mellifera (bee)
Effective dose : > 200 µg/bee

Parameter : LD50 (PROTHIOCONAZOLE ; CAS No. : 178928-70-6) ORAL
Species : Apis mellifera (bee)
Effective dose : > 710 µg/bee

Parameter : LD50 (PROTHIOCONAZOLE ; CAS No. : 178928-70-6)
Species : Eisenia foetida
Effective dose : > 1000 mg/l

Toxicity to birds

Acute and subchronic bird toxicity

Parameter : LD50 (SPIROXAMINE (ISO) ; CAS No. : 118134-30-8)

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Species : Colinus virginianus (bobwhite quail)
Effective dose : 565 mg/kg bw

Parameter : LD50 (PROTHIOCONAZOLE ; CAS No. : 178928-70-6)
Species : Colinus virginianus (bobwhite quail)
Effective dose : > 2000 mg/kg bw

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) (PROTHIOCONAZOLE ; CAS No. : 178928-70-6)
Concentration : 18,8

12.4 Mobility in soil

Adsorption

Parameter : Log KOW (PROTHIOCONAZOLE ; CAS No. : 178928-70-6)
Effective dose : 2

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Waste treatment options

Evidence for disposal must be provided.

Appropriate disposal / Product

Dispose of waste according to applicable legislation. Send to a hazardous waste incinerator facility under observation of official regulations.

Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number

UN 3082

14.2 UN proper shipping name

Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPIROXAMINE (ISO) · PROTHIOCONAZOLE)

Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPIROXAMINE (ISO) · PROTHIOCONAZOLE)

Air transport (ICAO-TI / IATA-DGR)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPIROXAMINE (ISO) · PROTHIOCONAZOLE)

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14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 9
Classification code : M6
Hazard identification number (Kemler No.) : 90
Tunnel restriction code : -
Special provisions : LQ 5 I · E 1 · ADR : - (SP 375 <= 5 l/kg)
Hazard label(s) :



Sea transport (IMDG)

Class(es) : 9
EmS-No. : F-A / S-F
Special provisions : LQ 5 I · E 1 · IMDG : - (SP 2.10.2.7 <= 5 l/kg)
Hazard label(s) : 9 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 9
Special provisions : E 1 · IATA : - (SP A197 <= 5 l/kg)
Hazard label(s) : 9 / N

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : Yes
Sea transport (IMDG) : Yes (P)
Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

No information available.

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 (REACH)
Classification according to Regulation (EC) No 1272/2008 [CLP] according to Regulation (EU) No. 2015/830
Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer. Regulation (EC) No 850/2004 [POP-Regulation] Regulation (EC) No. 689/2008
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]
Legislative Decree 81/2008 and subsequent amendments
Legislative Decree 152/2006 and subsequent amendments

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EC) No. 1272/2008 (CLP)

according to Regulation (EU) No. 2015/830



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None

16.2 Abbreviations and acronyms

ADR:	Accord européen relative au transport international des marchandises dangereuses par route
ASTM:	ASTM International, formerly known as American Society for Testing and Materials (ASTM)
EINECS:	European Inventory of Existing Commercial Chemical Substances
EC50:	Effective Concentration 50
LC50:	Lethal Concentration 50
IC50:	Inhibitor Concentration 50
NOEL:	No Observed Effect Level
DNEL:	Derived No Effect Level
DMEL:	Derived Minimum Effect Level
CLP:	Classification, Labelling and Packaging
CSR:	Chemical Safety Report
LD50:	Lethal Dose 50
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
Codice IMDG:	International Maritime Dangerous Goods code
PBT:	Persistent, bioaccumulative and toxic
RID:	Règlement concernant le transport International ferroviaire des marchandises Dangereuses
STEL:	Short term exposure limit
TLV:	Threshold limit value
TWA:	Time Weighted Average
UE:	European Union
vPvB:	Very persistent very bioaccumulative
N.D.:	No data available.
N.A.:	Not applicable
VwVwS.:	Text of Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes (Verwaltungsvorschrift wassergefährdende Stoffe – VwVwS)

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EC) No. 1272/2008 (CLP)

according to Regulation (EU) No. 2015/830



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None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
