

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

1.1. Product identifier

Trade name	AVTAR
Other Name	Difenoconazole 130 g/L + Prothioconazole 250 g/L EC
Product code	IN233C1560
UFI Code	SWPU-VCPD-X00X-FFKA

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

Fungicide
Professional use

1.3. Details of the supplier of the safety data sheet

Indofil Industries (Netherlands) B.V.
Jollemanhof 22, 1019 GW, Amsterdam
The Netherlands
Tel: +31 (0) 20 763 0790
Email: indofilnlbv@indofil.com

1.4. Emergency telephone number

Europe: 112

Italy: Poison control centers:
Osp. Niguarda Ca' Granda - Milano – Tel. 02 66101029
Centro Nazionale di Informazione Tossicologica - Pavia – Tel. 0382 24444
A.O. Papa Giovanni XXIII - Bergamo – Tel. 800 883300
Ospedale Careggi - Firenze – Tel. 055 7947819
Policlinico Gemelli – Roma – Tel. 06 3054343
Policlinico “Umberto I” - Roma – Tel. 06 49978000
A.O. "A. Cardarelli" - Napoli – Tel. 081 5453333
A.O. Univ. Foggia - Foggia – Tel. 800 183459
Osp. Pediatrico Bambino Gesù, Dip. DEA - Roma – Tel. 06 68593726
A.O. Integrata Verona - Verona – Tel. 800 011 858

Portugal: CIAV: +351 800 250 250

Greece: Poison center telephone: + 30-210-7793777

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

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

Hazard categories:

Health hazards:

Skin Irritation (Category 2), H315
Eye irritation (Category 2), H319
Carcinogenicity (Category 2), H351

Environmental hazards:

Aquatic Chronic (Category 1) H410

2.1.2. Additional information:

For the full text of Hazard statements see SECTION 16.

2.2 Label elements

Label elements according to Regulation (EC) No 1272/2008[CLP/GHS]

Signal word: Warning

Pictograms: GHS07 GHS08 GHS09



Hazard statements:

H315: Causes skin irritation.
H319: Causes serious eye irritation.
H351: Suspected of causing cancer
H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention:
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P264: Wash skin thoroughly after handling
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:
P302 + P352: IF ON SKIN: Wash with plenty of water and mild soap.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313: IF exposed or concerned: Get medical advice/attention.
P332 + P313: If skin irritation occurs: Get medical advice/attention
P337+P313: If eye irritation persists: Get medical advice/attention.
P362 + P364: Take off contaminated clothing and wash it before reuse.
P391: Collect spillage.
P405: Store in a locked place.
P411: Store at recommended temperatures.

Disposal:
P501: Dispose of contents/container in accordance with State, Local and Federal Regulations.

Supplemental hazard information:

EUH 401: To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards:

PBT and vPvB assessment: The substance/mixture contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties: The substance/mixture contains no components, included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties or identified as having endocrine disrupting properties according to the criteria set out in 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

Hazardous ingredients

Chemical name	Content in g/L	Identifiers	Classification Regulation (EC) No 1272/2008 [CLP]
Difenoconazole	130	CAS: 119446-68-3 Index: 601-613-1	Acute Toxicity (Category 4), H302, Eye Irritation (Category 2), H319, Carcinogenicity (Category 2), H351 Aquatic Acute (Category 1), H400, (M factor - 10) Aquatic Chronic (Category 1), H410, (M factor - 10)
Prothioconazole	250	CAS: 178928-70-6 Index: 605-841-2	Aquatic Acute (Category 1), H400, (M factor - 10) Aquatic Chronic (Category 1), H410, (M factor - 1)

For the complete text of H statements, please refer to section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

GENERAL:	In all cases of doubt, or where symptoms persist, seek medical attention. Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
INGESTION:	Do not attempt to induce vomiting. Do not attempt to give any solid or liquid by mouth to an unconscious or semi-conscious person. Wash out the mouth with water. If the exposed subject is fully conscious, give plenty of water to drink. Seek medical advice.
INHALATION:	Move person to fresh air and keep comfortable for breathing. If breathing difficulties persist, contact physician.
SKIN CONTACT:	Take off contaminated clothing and shoes immediately. Wash immediately with plenty of soap and water. Seek medical attention if ill effects or irritation develops. Wash contaminated clothing before reuse.
EYE CONTACT:	Immediately flush the eyes with copious amounts of clear, cool running water for a minimum of 15 minutes. Hold the eyelids apart during flushing to ensure rinsing of the entire surface of the eye and lids with water. Remove contact lenses, if present and easy to do. If irritation occurs and persists, contact a doctor.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician: Basic aid, decontamination, symptomatic treatment. See Section 11 for more detailed information on health effects and symptoms.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Water Foam
Carbon dioxide (CO₂) Dry powder.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter & spread fire.

5.2. Special hazards arising from the substance or mixture

Hazards from the substance or mixture Fire will produce dense black smoke containing hazardous products of combustion. May contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to Carbon monoxide, Carbon dioxide,

5.3. Advice for fire-fighters

Special Fire-Fighting Procedures: Stay upwind. Fight fire with normal precautions from a reasonable distance. Do not use a solid water stream as it may scatter and spread fire. Cool down the containers/equipment exposed to heat with a water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special Protective Equipment for Fire-fighters: Wear full protective clothing and self-contained breathing apparatus. Personal protective equipment comprising suitable protective gloves, safety goggles and protective clothing.

Additional Information Keep containers cool. Contain runoff to prevent entry into water or drainage systems. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Avoid breathing smoke. Work upwind of any spill.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Avoid contact with skin, eyes, or clothing. Use personal protective equipment as required. Evacuate personnel to safe areas. Eliminate all ignition sources if safe to do so. Stop leaking if safe to do so. For further information refer to section 8 "Exposure controls/personal protection"

6.2. Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Contain the spilled material by bunding. Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.

6.3. Methods and material for containment and cleaning up Shovel or sweep up. Keep in suitable, closed containers for disposal. Never return spills in original containers for re-use. Wash non-recoverable remainder with large amounts of water. Clean contaminated surface thoroughly. Recover the cleaning water for subsequent disposal. Decontaminate tools, equipment, and personal protective equipment in a segregated area. Dispose of it in accordance with local regulations. Spilled material can be a slipping hazard. Eliminate flames, sparks, excessive temperatures, and oxidizing agents. Non-sparking tools should be used.

6.4. Reference to other sections See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1. Precautions for safe handling

Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation, ingestion and contact with skin and eyes. Avoid splashes. Wash contaminated clothing before reusing. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. For personal protection see section 8.
-----------------	---

7.2. Conditions for safe storage, including any incompatibilities

Storage	Keep it in the original container during storage. Store in closed, properly labeled containers in a cool, dry and well-ventilated area away from feeds and food. Do not transfer contents to bottles or other unlabeled containers. Keep away from fire and sparks, open flames or other sources of heat. Keep out of the reach of children.
----------------	--

7.3. Specific end use(s)	For proper & safe use of this product, please refer to the approval conditions laid down on the product label.
---------------------------------	--

SECTION 8: Exposure controls/personal protection

8.1. Control parameters	While using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment work area and clothing is recommended.
--------------------------------	---

8.2. Exposure control

Risk management measures	According to Good Agricultural Practice.
---------------------------------	--

Occupational exposure controls	Explosion-proof general and local exhaust ventilation. Avoid splashes. Avoid formation of aerosol. Please refer to the product label. Use only with adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
---------------------------------------	--

8.2.2. Personal Protection:	<table border="0"> <tr> <td style="vertical-align: top;">(a) Eye/face protection</td> <td>Face shield and safety glasses. Use equipment for eye protection, tested and approved under appropriate government standards.</td> </tr> <tr> <td style="vertical-align: top;">(b) Skin protection</td> <td>Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.</td> </tr> <tr> <td style="vertical-align: top;">(c) Respiratory protection</td> <td>Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.</td> </tr> <tr> <td style="vertical-align: top;">(d) Skin/Body protection</td> <td>Complete suit protection against chemicals. Use proper protective equipments in accordance with concentration &</td> </tr> </table>	(a) Eye/face protection	Face shield and safety glasses. Use equipment for eye protection, tested and approved under appropriate government standards.	(b) Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.	(c) Respiratory protection	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	(d) Skin/Body protection	Complete suit protection against chemicals. Use proper protective equipments in accordance with concentration &
(a) Eye/face protection	Face shield and safety glasses. Use equipment for eye protection, tested and approved under appropriate government standards.								
(b) Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.								
(c) Respiratory protection	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.								
(d) Skin/Body protection	Complete suit protection against chemicals. Use proper protective equipments in accordance with concentration &								

amount of the dangerous substance at the workplace.

(e) Hygiene Measures: Handle in accordance with good industrial hygiene & safety practice. Wash hands before breaks & at the end of workday.

8.2.3. Environmental exposure controls: Emissions from work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid
Colour	Light yellow
Odour	Aromatic odour
pH-value	5 – 8
Melting point / freezing point	No data available
Boiling point / boiling range	No data available
Upper/lower flammability or explosive limits	No data available
Flash Point	> 60°C
Flammability	Not flammable
Vapour pressure	No data available
Vapour density	No data available
Solubility in water	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	375°C
Decomposition temperature	No data available
Viscosity, Dynamic	102.50 cP (mPa*s) at 20°C 40.93 cP (mPa*s) at 40°C
Density	1.1445 g/mL at 20°C
Particle characteristics	Not applicable

9.2. Other information

Explosive Properties:	Does not contain explosive properties
Oxidizing Properties:	Does not contain oxidising properties

SECTION 10: Stability and reactivity

10.1. Reactivity	No specific test data related to reactivity available for this product.
10.2. Chemical stability	Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	No data available.
10.5. Incompatible materials	No data available.
10.6. Hazardous decomposition products	Combustion or thermal decomposition will evolve toxic and irritant vapors.

SECTION 11: Toxicological information

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

Hazard classes¹

Assessment largely or completely based on published data for active ingredients

Acute toxicity

by ingestion (rat)	Not Classified
by skin contact (rat)	Not Classified
by inhalation (rat)	Not Classified

Skin irritation (rabbit) Classified as skin irritant (Category 2)

Eye irritation (rabbit) Classified as eye irritant (Category 2)

Skin sensitization (guinea-pig) Not Classified

Germ Cell Mutagenicity
Difenoconazole: Not classified
Prothioconazole: Not classified

Carcinogenicity
Difenoconazole: Suspected of causing cancer
Prothioconazole: Not classified

Reproductive Toxicity
Difenoconazole: Not classified
Prothioconazole: Not classified

STOT – Single exposure
Difenoconazole: Not classified
Prothioconazole: Not classified

STOT – Repeated exposure
Difenoconazole: Not classified
Prothioconazole: Not classified

Aspiration Hazard
Difenoconazole: Not classified
Prothioconazole: Not classified

Other
Difenoconazole: No data available
Prothioconazole: Not classified

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

The substance/mixture contains no components, included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting

¹ As defined in Regulation (EC) 1272/2008

properties or identified as having endocrine disrupting properties according to the criteria set out in 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:

Assessment largely or completely based on published data for active ingredients

Aquatic organisms	Fish (<i>Brachydanio rerio</i>)	Acute (96 h)	Material is non-toxic to fish in a short-term exposure. (LC ₅₀ > 1.0 mg/L)
	Daphnia magna	Acute (48 h)	Material is non-toxic to daphnia in a short-term exposure. (EC ₅₀ > 1.0 mg/L)
	Algae (<i>Pseudokirchneriella subcapitata</i>)	Acute (72 h)	Material is non-toxic to algae in a short-term exposure. (ErC ₅₀ > 1.0 mg/L)
		Chronic (72 h)	Material is toxic to algae in a long-term exposure. (NOEC < 1 mg/L)
Terrestrial organisms	Birds	Acute	Difenoconazole: LD ₅₀ > 2000 mg/kg bw/d (<i>Japanese quail</i>) Prothioconazole: LD ₅₀ > 2000 mg/kg bw/d (<i>Bobwhite quail</i>)
	Honey bees	Acute	Difenoconazole Oral LD ₅₀ > 100 µg as/bee Contact LD ₅₀ > 100 µg as/bee Prothioconazole Oral LD ₅₀ > 71 µg as/bee Contact LD ₅₀ > 100 µg as/bee

12.2. Persistence and degradability

Difenoconazole: Moderately persistent.
Soil: DT50: 20 – 242 days.
Prothioconazole: Very low to low persistent.
Soil: DT50: 0.07 to 1.27 days

Not readily biodegradable.

12.3. Bio-accumulation potential

Difenoconazole: BCF 330
Prothioconazole: BCF 19.7

12.4. Mobility in soil

Difenoconazole: Low mobility in soil.
Prothioconazole: Slight mobility in soil.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

The substance/mixture contains no components, included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties or identified as having endocrine disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not contaminate water, food or feed by disposal. Waste resulting from the use of this product may be disposed of at an approved waste disposal facility.
The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Product/packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

SECTION 14: Transport information

Land transport (ADR):

14.1. UN number

3082

14.2. UN proper shipping name

Environmentally hazardous substance, liquid, n.o.s. (contains Difenoconazole & Prothioconazole)

14.3. Transport hazard class (es):

9

14.4. Packing group:

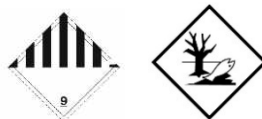
III

14.5 Environmental hazards:

Environmentally hazardous

Hazard label:

9



14.6 Special precautions for user

Classification code:

M6

Transport category:

3

Tunnel restriction code:

(-)

Limited quantities:

5 L

Marine transport (IMDG):

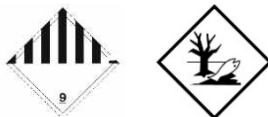
14.1. UN number

3082

14.2. UN proper shipping name

Environmentally hazardous substance, liquid, n.o.s. (contains Difenoconazole & Prothioconazole)

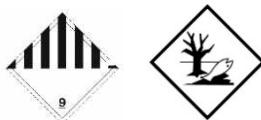
14.3. Transport hazard class(es): 9
14.4. Packing group: III
14.5 Environmental hazards: Marine pollutant/ Environmentally hazardous
Hazard label: 9



14.6 Special precautions for user
Limited quantities: 5 L

Air transport (ICAO/IATA)

14.1. UN number 3082
14.2. UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (contains Difenconazole & Prothioconazole)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
14.5 Environmental hazards: Environmentally hazardous
Hazard label: 9



14.6 Special precautions for user No data available

14.7 Maritime transport in bulk in accordance with IMO Acts

Not applicable to the product in its supplied form.

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation):

In accordance with the REACH regulation (EC) 1907/2006, the product does not contain any substance that is considered subject to listing in annex XIV, inventory of substances requiring authorisation.

REACH candidate list of Substances of Very High Concern (SVHC) for authorization:

In accordance with article 57 and article 59 of the REACH regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorization ("Authorization list").

Annex XVII to REACH– Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures, and articles:

Not applicable.

Regulation (EC) 1005/2009 on substances that deplete the ozone layer:

Not applicable.

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent

organic pollutants and amending Directive 79/117/EEC (23):

Not applicable.

15.2. Chemical Safety Assessment

To avoid risks to man and the environment, comply with the instructions for use. For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 16: Other information

Abbreviations and acronyms

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road

a.i = active ingredient

BCF = Bioconcentration factors

bw = body weight

CAS = Chemical Abstract Service

CLP = Classification Labelling & Packaging of chemical substance

EC₅₀ = Effective Concentration

EC = European Commission

EU = European Union

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

IMDG = International Maritime Code for Dangerous Goods

LC = Lethal concentration

LD = Lethal dose

NOEC = No Observed Effect Concentration

PBT = Persistent Bioaccumulative and Toxic

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

STOT = Specific Target Organ Toxicity

UN = United Nations

vPvB = Very persistent Very bioaccumulative

Complete H-Statements:

H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H351: Suspected of causing cancer.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Classification procedure:

- On basis of test data
- Calculation method

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The company, Indofil Industries (Netherlands) B.V., shall not be held liable for any damage resulting from handling or from contact with the above product. This version of SDS supersedes all previous editions.

Reference number: IIL/DFNPTZ/04380/01/EU

Issue Date: 30/06/2021

Revision Date: 30/09/2025

Version number: 04

★ ★ ★ ★ ★ ★ ★ ★