

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008



Revision date 10-Jul-2023

Revision Number 1

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

1.1. Product identifier

Product Name TSAFRIR
Product Code(s) TP.2029.F.0___ISR
Chemical name Cyproconazole 100 SC
Pure substance/mixture Mixture

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

Recommended use Fungicide; For professional users only
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Tapazol Chemical Works Ltd.
1st HaSolela st.
West. Ind. Zone
Beit Shemesh, Israel 9905415
Tel: +972-2-992-6040
Fax: +972-2-9926050
For further information, please contact sds@tapazol.co.il

1.4. Emergency telephone number

Emergency Telephone +972 4 777 1900
National Institute for Information on Poisoning
Rambam Health Care Campus, Haifa, Israel

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)
Reproductive toxicity	Category 1B - (H360D)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

2.2. Label elements



Signal word
Danger

Hazard statements

H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H335 - May cause respiratory irritation
 H360D - May damage the unborn child
 H373 - May cause damage to organs through prolonged or repeated exposure
 H410 - Very toxic to aquatic life with long lasting effects
 EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

Precautionary Statements - EU (§28, 1272/2008)

P102 - Keep out of reach of children
 P201 - Obtain special instructions before use
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P302 + P352 - IF ON SKIN: Wash with plenty of water/...
 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
 P391 - Collect spillage
 P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

SP1 - Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

2.3. Other hazards

Endocrine Disruptor Information

Chemical name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disrupters - Evaluated Substances
Cyproconazole (ISO)	Group III Chemical	-
4-Nonylphenol, branched, ethoxylated	Group III Chemical	-

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Cyproconazole (ISO)	619-020-1	94361-06-5	8-12	Acute Tox. 3 (H301) Repr. 1B (H360D) STOT RE 2 (H373) (liver) Aquatic Acute 1 (H400) M=10 Aquatic Chronic 1

				(H410) M=1
1-Methylpyrrolidin-2-one	212-828-1	872-50-4	58-65	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Repr. 1B (H360D) STOT SE 3 (H335)
4-Nonylphenol, branched, ethoxylated	---	127087-87-0	7-12	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)

Full text of H- and EUH-phrases: see section 16

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No	SVHC candidates
1-Methylpyrrolidin-2-one	872-50-4	X
4-Nonylphenol, branched, ethoxylated	127087-87-0	X

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water.

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

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

Note to physicians Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Small Fire Dry chemical, CO₂, water spray or regular foam.
Large Fire Water spray, fog or regular foam
 Dike fire-control water for later disposal
 Move containers from fire area if you can do it without risk

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Netherlands	Bulgaria
1-Methylpyrrolidin-2-one 872-50-4	TWA: 10 ppm TWA: 40 mg/m ³ STEL: 20 ppm STEL: 80 mg/m ³ *	TWA: 10 ppm TWA: 40 mg/m ³ STEL 20 ppm STEL 80 mg/m ³ H* Skin sensitizer	TWA: 10 ppm TWA: 40 mg/m ³ STEL: 20 ppm STEL: 80 mg/m ³ *	TWA: 40 mg/m ³ STEL: 80 mg/m ³ H*	STEL: 20 ppm STEL: 80 mg/m ³ TWA: 10 ppm TWA: 40 mg/m ³ K*
Chemical name	Denmark	Germany	France	United Kingdom	Spain

1-Methylpyrrolidin-2-one 872-50-4	TWA: 5 ppm TWA: 20 mg/m ³ H*	TWA: 20 ppm TWA: 82 mg/m ³ H*	TWA: 40 mg/m ³ TWA: 10 ppm STEL: 80 mg/m ³ STEL: 20 ppm *	TWA: 10 ppm TWA: 40 mg/m ³ STEL: 20 ppm STEL: 80 mg/m ³ Sk*	TWA: 10 ppm TWA: 40 mg/m ³ STEL: 20 ppm STEL: 80 mg/m ³ via dérmica*
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Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
1-Methylpyrrolidin-2-one 872-50-4	-	-	-	20 mg/g Creatinine - urine (2-Hydroxy-N-methylsuccinimide) - about 16 hours after completion of the work shift 70 mg/g Creatinine - urine (5-Hydroxy-N-methyl-2-pyrrolidone) - 2-4 times after the work shift/break	-
Chemical name	Denmark	Finland	France	Germany	Germany MAK
1-Methylpyrrolidin-2-one 872-50-4	-	-	-	150 mg/L (urine - 5-Hydroxy-N-methyl-2-pyrrolidone end of shift) 150 mg/L - BAT (end of exposure or end of shift) urine	150 mg/L (urine - 5-Hydroxy-N-methyl-2-pyrrolidone end of shift)
Chemical name	Hungary	Ireland	Italy	Italy REL	
1-Methylpyrrolidin-2-one 872-50-4	-	20 mg/g Creatinine (urine - 2-Hydroxy-N-Methylsuccinimide morning after shift (8 hours)) 70 mg/g Creatinine (urine - 5-Hydroxy-N-methyl-2-pyrrolidone 2-4 hours after the end of the shift)	-	100 mg/L - urine (5-Hydroxy-N-methyl-2-pyrrolidone) - end of shift	
Chemical name	Slovenia	Spain	Switzerland	United Kingdom	
1-Methylpyrrolidin-2-one 872-50-4	150 mg/L - urine (5-Hydroxy-N-methyl-2-pyrrolidone) - at the end of the work shift	20 mg/g Creatinine (urine - 2-Hydroxy-N-methylsuccinimide pre-shift) 70 mg/g Creatinine (urine - 5-Hydroxy-N-methyl-2-pyrrolidone between 2-4 hours after the final exposure)	-	-	

8.2. Exposure controls

Personal protective equipment

Eye/face protection

No special protective equipment required.

Skin and body protection	No special protective equipment required.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Color	Clear yellowish-brown

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	5.0 - 8.0	
pH (as aqueous solution)		
Melting point / freezing point		
Boiling point / boiling range		
Flash point	No data available.	
Evaporation rate	No data available.	
Flammability (solid, gas)	No data available.	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available.	
Lower flammability or explosive limits	No data available.	
Vapor pressure	No data available.	
Vapor density	No data available.	
Relative density	1.0 - 1.1	
Water solubility	No data available.	
Solubility(ies)	No data available.	
Partition coefficient	No data available.	
Autoignition temperature	No data available.	
Decomposition temperature		
Kinematic viscosity	No data available.	
Dynamic viscosity	No data available.	

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Oral LD50 >2000 mg/kg. Not classified. Based on available data, the classification criteria are not met.

Dermal LD50 > 2000 mg/kg. Not classified. Based on available data, the classification criteria are not met.

Inhalation LC50 Not classified. Based on calculation method, the classification criteria are not met.

Skin corrosion/irritation Non-irritating to the skin. Not classified. Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation H319 - Causes serious eye irritation. Classification based on test data.

Respiratory or skin sensitization H317 - May cause an allergic skin reaction. Classification based on test data.

Germ cell mutagenicity Not classified. Based on calculation method classification criteria are not met.

Chemical name	European Union
Cyproconazole (ISO)	Not classified
1-Methylpyrrolidin-2-one	Not classified
4-Nonylphenol, branched, ethoxylated	Not classified

Carcinogenicity Not classified. Based on calculation method classification criteria are not met.

Chemical name	European Union
Cyproconazole (ISO)	Not classified
1-Methylpyrrolidin-2-one	Not classified
4-Nonylphenol, branched, ethoxylated	Not classified

Reproductive toxicity H360D - May damage the unborn child. Classification based on calculation method.

Chemical name	European Union
Cyproconazole (ISO)	Repr. 1B (H360D)
1-Methylpyrrolidin-2-one	Repr. 1B (H360D)
4-Nonylphenol, branched, ethoxylated	Not classified

STOT - single exposure H335 - May cause respiratory irritation. Classification based on calculation method.

STOT - repeated exposure H373 - May cause damage to organs through prolonged or repeated exposure. Classification based on calculation method.

Aspiration hazard Not classified. Based on available data, the classification criteria are not met.

SECTION 12: Ecological information**12.1. Toxicity****Ecotoxicity**

H400 - Very toxic to aquatic life.
 Classification based on calculation method.
 H410 - Very toxic to aquatic life with long lasting effects.
 Classification based on calculation method.
 Non-toxic to honeybees.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Cyproconazole (ISO)	Acute toxicity: EC50 = 0.099 mg/l; Chronic toxicity: NOEC = 0.021 mg/l	Acute toxicity: LC50 = 19 mg/l; Chronic toxicity: NOEC = 0.65 mg/l	-	Acute toxicity: EC50 > 22 mg/l; Chronic toxicity: NOEC = 0.023 mg/l

12.2. Persistence and degradability

Persistence and degradability Can be persistent in both soil and water systems [Cyproconazole].

12.3. Bioaccumulative potential

Bioaccumulation Low potential for bioaccumulation [Cyproconazole].

Bioconcentration factor (BCF) 28 L/Kg [Cyproconazole]

Component Information

Chemical name	Partition coefficient
Cyproconazole (ISO)	Log P = 3.09 (at pH 7, 20 °C)
1-Methylpyrrolidin-2-one	-0.46

12.4. Mobility in soil

Mobility in soil Moderately mobile [Cyproconazole].

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The components in formulation do not meet the criteria for classification as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Cyproconazole (ISO)	The substance is not PBT / vPvB
1-Methylpyrrolidin-2-one	The substance is not PBT / vPvB
4-Nonylphenol, branched, ethoxylated	The substance is not PBT / vPvB

12.6. Other adverse effects**Endocrine Disruptor Information**

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances
Cyproconazole (ISO)	Group III Chemical	-
4-Nonylphenol, branched, ethoxylated	Group III Chemical	-

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information**IMDG**

14.1 UN number	3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. [Cyproconazole]
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Marine pollutant	Yes
Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	

RID

14.1 UN number	3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. [Cyproconazole]
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number	3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. [Cyproconazole]
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None

IATA

14.1 UN number	3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. [Cyproconazole]
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****France****Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number	Title
1-Methylpyrrolidin-2-one 872-50-4	RG 84	-

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents

at work

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Cyproconazole (ISO) - 94361-06-5	30.	
1-Methylpyrrolidin-2-one - 872-50-4	72. 30. 71.	
4-Nonylphenol, branched, ethoxylated - 127087-87-0		X

Persistent Organic Pollutants

Not applicable

Export Notification requirements

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

Chemical name	European Export/Import Restrictions per (EC) 689/2008 - Annex Number
4-Nonylphenol, branched, ethoxylated - 127087-87-0	I.1 I.2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable**International Inventories**

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AICS	Contact supplier for inventory compliance status

Legend:

TSCA	- United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL	- Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	- Japan Existing and New Chemical Substances
IECSC	- China Inventory of Existing Chemical Substances
KECL	- Korean Existing and Evaluated Chemical Substances
PICCS	- Philippines Inventory of Chemicals and Chemical Substances
AICS	- Australian Inventory of Chemical Substances

15.2. Chemical safety assessment**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H301 - Toxic if swallowed
H302 - Harmful if swallowed
H315 - Causes skin irritation
H318 - Causes serious eye damage
H319 - Causes serious eye irritation

H332 - Harmful if inhaled
 H335 - May cause respiratory irritation
 H360D - May damage the unborn child
 H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects
 H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Classification procedure

H317 - Classification based on test data
 H319 - Classification based on test data
 H335 - Classification based on calculation method
 H360D - Classification based on calculation method
 H373 - Classification based on calculation method
 H400 - Classification based on calculation method
 H410 - Classification based on calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGL(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

Revision date 10-Jul-2023

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet