



SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Annex II

MCW 3858

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Version 1

Product No FNG56835-M

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R-23908 MCW 3858

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

MCW 3858

Synonyms Cyprodinil Tebuconazole 187.5 125 EC

Pure substance/mixture Mixture

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

Recommended Use Fungicide
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Address Makhteshim Chemical Works Ltd.
PO Box 60
Beer Sheva 84100 Israel

For further information, please contact

Email address msds@mcw.co.il

1.4. Emergency telephone number

Emergency Telephone +972-03-6106666 Subscription no. 36789 (Makhteshim)

Section 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

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

Serious eye damage/eye irritation Category 2 - (H319)
Reproductive Toxicity Category 2 - (H361d)
Acute aquatic toxicity Category 1 - (H400)
Hazardous to the Aquatic Environment - Chronic Hazard Category 1 - (H410)

Classification according to Directive 67/548/EEC or 1999/45/EC

Full text of R-phrases: see section 16

Repr. cat. 3;R63 - N;R50-53

2.2. Label elements

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

Hazard pictograms**Signal word**

Warning

Hazard Statements

H319 - Causes serious eye irritation
 H361d - Suspected of damaging the unborn child
 H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements

P102 - Keep out of reach of children
 P201 - Obtain special instructions before use
 P281 - Use personal protective equipment as required
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P501 - Dispose of contents/ container to an approved waste disposal plant

EU Specific Hazard Statements

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use
 EUH208 - Contains Cyprodinil, Rosin and Propanoic acid, 2-hydroxy-,2-ethylhexyl ester.
 May produce an allergic reaction

Additional phrases for PPP

SP1 - Do not contaminate water with the product or its container

2.3. Other hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixture**

Chemical Name	Weight-%	CAS No	EC No	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Classification according to 67/548/EEC	M-Factor	REACH Registration Number
Cyprodinil	16 - 20	121552-61-2	-	612-242-00-X	Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	R43 N; R50-53	10	-
Tebuconazole	11 - 13	107534-96-3	-	603-197-00-7	Acute Tox. 4 (H302) Repr. 2 (H361d) Aquatic Chronic 2 (H411)	Xn; R22 Repr.Cat.3; R63 N; R51-53		-
Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester	43 - 47	186817-80-1	-	-	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	Xi;R36/38-R43		01-21195162 38-41-0002
Rosin	2.5 - 3.5	8050-09-7	232-475-7	650-015-00-7	Skin Sens. 1 (H317)	R43		01-21194804 18-32

butan-1-ol	2.5 - 3.5	71-36-3	200-751-6	603-004-00-6	Flam Liq. 3 (H226) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335) STOT SE 3 (H336)	R10 Xn; R22 Xi; R37/38-41 R67		-
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	4 - 6	N/A	-	-	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	Xi; R41, R38		01-21195605 92-37

Full text of R-phrases: see section 16

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

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!.
Inhalation	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Ingestion	Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.
Self-protection of the first aider	Use personal protective equipment as required.

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

Symptoms None known

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

Note to physicians Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

No information available.

5.2. Special hazards arising from the substance or mixture

No specific hazard known.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus
In the event of fire and/or explosion do not breathe fumes

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

For emergency responders

Use personal protection recommended in Section 8.

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. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Other Information

See also section 8,13

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Rosin 8050-09-7		TWA: 0.05 mg/m ³	TWA: 0.1 mg/m ³		
butan-1-ol 71-36-3		STEL: 50 ppm STEL: 154 mg/m ³ Skin	STEL: 50 ppm STEL: 150 mg/m ³	S* STEL: 50 ppm STEL: 154 mg/m ³	TWA: 100 ppm TWA: 310 mg/m ³ Ceiling / Peak: 100 ppm Ceiling / Peak: 310 mg/m ³
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
butan-1-ol 71-36-3		TWA: 20 ppm		TWA: 50 ppm TWA: 150 mg/m ³ STEL: 75 ppm STEL: 230 mg/m ³ Skin	Ceiling: 50 ppm Ceiling: 150 mg/m ³ Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Rosin 8050-09-7					TWA: 0.05 mg/m ³ STEL: 0.15 mg/m ³
butan-1-ol 71-36-3	STEL 200 ppm STEL 600 mg/m ³ TWA: 50 ppm TWA: 150 mg/m ³	STEL: 50 ppm STEL: 150 mg/m ³ TWA: 50 ppm TWA: 150 mg/m ³	STEL: 150 mg/m ³ TWA: 50 mg/m ³ Skin	Skin Ceiling: 25 ppm Ceiling: 75 mg/m ³	TWA: 20 ppm STEL: 25 ppm STEL: 75 mg/m ³ Skin

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Body Protection

Suitable protective clothing, Suitable protective clothing, Apron, Gloves made of plastic or rubber.

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Property	Values	Method	Remarks
Appearance			
Physical state	: liquid		
Color	: yellow-orange		
Odor	: Aromatic		
Odor threshold	: No data available		
pH	: 6 - 7	CIPAC MT 75.3	solution (1 %)
Melting point/freezing point °C	: No data available		
Boiling point/boiling range °C	: No data available		
Flash point °C	: 84	EEC A.9	
Evaporation rate	: Not Applicable		
Flammability (solid, gas)	: Not Applicable		

Upper/lower flammability or explosive limits	:	No data available	
Vapor pressure kPa	:	No data available	
Vapor density	:	No data available	
Relative density	:	1.024 - 1.028	EEC A.3
Solubility(ies) mg/l	:	No data available	
Partition Coefficient (n-octanol/water) Log Pow	:		See Section 12 for more information
Autoignition temperature °C	:	295	EEC A.15
Decomposition temperature °C	:	No data available	
Kinematic viscosity mm²/s 40 °C	:	42.48	OECD 114
Explosive properties	:	Not an explosive	OPPTS 830.6316
Oxidizing properties	:	Not oxidizing	EEC A.21
9.2. Other information			
Bulk density g/ml	:		
Surface tension mN/m	:	31.4	OECD 115
Minimum ignition energy (MIE) mJ	:		

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

Chemical Name

Tebuconazole Carbon dioxide (CO₂), Carbon monoxide, Nitrogen oxides (NO_x), Hydrogen chloride.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Acute toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: >2000	Rat	OECD 423	
Dermal LD50 mg/kg	: >2000	Rat	OECD 402	
Inhalation LC50 mg/l/4h	: >5.89	Rat	OECD 403	
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Irritating to eyes	Rabbit	OECD 405	

Respiratory/skin sensitization : Not a skin sensitizer Guinea pig OECD 406

Chronic toxicity**Germ cell mutagenicity****Chemical Name**

Cyprodinil : Not classified
 Tebuconazole : Not classified

Carcinogenicity**Chemical Name**

Cyprodinil : Not Carcinogenic
 Tebuconazole : Not classified

Reproductive toxicity**Chemical Name**

Cyprodinil : Not toxic for the reproductive system
 Tebuconazole : H361d - Suspected of damaging the unborn child

STOT - single exposure**Chemical Name**

Cyprodinil : No information available
 Tebuconazole : No information available

STOT - repeated exposure**Chemical Name**

Cyprodinil : No information available
 Tebuconazole : No information available

Aspiration hazard**Chemical Name**

Cyprodinil : No information available
 Tebuconazole : No information available

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity**Acute toxicity**

Aquatic toxicity	Values	Species	Method	Remarks
Fish 96-hour LC50 mg/l	: 11.03	Oncorhynchus mykiss	OECD 203	
Crustacea 48-hour EC50 mg/l	: 0.387	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l	: 41.96	P. subcapitata	OECD 201	
Other plants EC50 mg/l	:			No data available

Terrestrial Toxicity**Birds Oral LD50 mg/kg****Chemical Name**

Cyprodinil : >500 Mallard duck FIFRA 71-1
 Tebuconazole : 1988 Bobwhite quail

Bees Oral LD50 µg/bee**Chemical Name**

Cyprodinil : No data available Not available
 Tebuconazole : 83.05 Oral

12.2. Persistence and degradability

Abiotic Degradation	Values	Method	Remarks
Water DT50 days			
Chemical Name			
Cyprodinil	: >400		25° C
Tebuconazole	: 365		
Soil DT50 days			
Chemical Name			
Cyprodinil	: 31-41		20° C
Tebuconazole	: 34.8		
Biodegradation			
Chemical Name			
Cyprodinil	: Not readily biodegradable		
Tebuconazole	: Not readily biodegradable	OECD 301B	

12.3. Bioaccumulative potential

Partition Coefficient (n-octanol/water) Log Pow	Values	Method	Remarks
Chemical Name			
Cyprodinil	: 4	OECD 107	pH 5, 7, 9 ; 25 ° C
Tebuconazole	: 3.7		
Bioconcentration factor (BCF)			
Chemical Name			
Cyprodinil	: 393	OECD 305E	
Tebuconazole	: 78		

12.4. Mobility in soil

Adsorption/Desorption	Values	Method	Remarks
Chemical Name			
Cyprodinil	: 1536-2012		Koc
Tebuconazole	: 769		Koc

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

12.6. Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Improper disposal or reuse of this container may be dangerous and illegal.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO

14.1 UN/ID No 3082
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyprodinil Tebuconazole)
14.3 Hazard Class 9
14.4 Packing Group III
14.5 Marine pollutant Yes
14.6 Special precautions for user

RID/ADR

14.1 UN/ID No 3082
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyprodinil Tebuconazole)
14.3 Hazard Class 9
14.4 Packing Group III
14.5 Environmental hazard Yes
14.6 Special precautions for user

ICAO/IATA

14.1 UN/ID No 3082
14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cyprodinil Tebuconazole)
14.3 Hazard Class 9
14.4 Packing Group III
14.5 Environmental hazard Yes
14.6 Special precautions for user
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable

**Section 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2. Chemical safety assessment**

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

Section 16: OTHER INFORMATION**Full text of R-phrases referred to under sections 2 and 3**

R10 - Flammable
R22 - Harmful if swallowed
R41 - Risk of serious damage to eyes
R43 - May cause sensitization by skin contact
R63 - Possible risk of harm to the unborn child
R67 - Vapors may cause drowsiness and dizziness

R36/38 - Irritating to eyes and skin

R37/38 - Irritating to respiratory system and skin

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under sections 2 and 3

H226 - Flammable liquid and vapor

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H361d - Suspected of damaging 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

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

Disclaimer

The information provided in this Material 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