

# 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 02-May-2022

Revision Number 1

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

### 1.1. Product identifier

**Product Name** METROPOLIN  
**Product Code(s)** TP.3015.I.1\_\_\_ISR  
**Chemical name** Emamectin benzoate 14 Methoxyfenozide 240 SC  
**Pure substance/mixture** Mixture

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

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

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

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](mailto: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*

<b>Specific target organ toxicity (single exposure)</b>	Category 2 - (H371)
<b>Specific target organ toxicity (repeated exposure)</b>	Category 2 - (H373)
<b>Acute aquatic toxicity</b>	Category 1 - (H400)
<b>Chronic aquatic toxicity</b>	Category 1 - (H410)

### 2.2. Label elements

Contains Emamectin Benzoate (ISO)



**Signal word**  
Warning

**Hazard statements**

H371 - May cause damage to organs  
 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  
 EUH208 - Contains ( 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol ). May produce an allergic reaction

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

P102 - Keep out of reach of children  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
 P270 - Do not eat, drink or smoke when using this product  
 P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor  
 P314 - Get medical advice/attention if you feel unwell  
 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
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	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]
Methoxyfenozide	605-245-2	161050-58-4	21-27	Aquatic Chronic 2 (H411)
Emamectin Benzoate (ISO)	605-015-1	155569-91-8	1-3	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Eye Dam. 1 (H318) Acute Tox. 3 (H331) STOT SE 1 (H370) (nervous system) STOT RE 1 (H372) (nervous system) Aquatic Acute 1 (H400) M=10000 Aquatic Chronic 1

				(H410) M=10000
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	225-208-0	4719-04-4	0.1-0.2	Acute Tox. 4 (H302) Skin Sens. 1 (H317) SCL ≥ 0,1 %
Quarz (SiO <sub>2</sub> ), respirable particles	238-878-4	14808-60-7	<0.01	STOT RE (Lung) 1 (H372)

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

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

- General advice** Show this safety data sheet to the doctor in attendance.
- Inhalation** Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
- Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
- Skin contact** Wash with soap and water. May cause an allergic skin reaction. Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.
- Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
- Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Symptoms** Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

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

**Note to physicians** May cause sensitization in susceptible persons. 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, CO<sub>2</sub>, 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**

**Specific hazards arising from the chemical** Product is or contains a sensitizer. May cause sensitization by skin contact.

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

**Other information** Refer to protective measures listed in Sections 7 and 8.

**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** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

**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
Quarz (SiO <sub>2</sub> ), respirable particles 14808-60-7	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.15 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.075 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
Chemical name	Denmark	Germany	France	United Kingdom	Spain
Quarz (SiO <sub>2</sub> ), respirable particles 14808-60-7	TWA: 0.3 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	-	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>

**Biological occupational exposure limits**

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Quarz (SiO <sub>2</sub> ), respirable particles 14808-60-7	-	( - )	-	-	-

**8.2. Exposure controls****Personal protective equipment**

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Hand protection</b>	Wear suitable gloves.
<b>Skin and body protection</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General hygiene considerations</b>	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	Liquid
Color	Off- white

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	6.7 - 7.2	
pH (as aqueous solution)		
Melting point / freezing point		
Boiling point / boiling range	>100 °C	
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	1.01 - 1.05
Water solubility	Forms a suspension
Solubility(ies)	No data available.
Partition coefficient	No data available.
Autoignition temperature	No data available.
Decomposition temperature	No data available.
Kinematic viscosity	879 - 978
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** 5000 mg/kg. Based on available data, the classification criteria are not met.  
**Dermal LD50** > 2000 mg/kg. Based on available data, the classification criteria are not met.  
**Inhalation LC50** > 5.331 mg/l air 4 h. Based on available data, the classification criteria are not met.

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

**Serious eye damage/eye irritation** Non-irritating to the eyes. Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization** Not a skin sensitizer. Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

Chemical name	European Union
Methoxyfenozide	Not classified
Emamectin Benzoate (ISO)	Not classified

#### Carcinogenicity

Chemical name	European Union
Methoxyfenozide	Not classified
Emamectin Benzoate (ISO)	Not classified

#### Reproductive toxicity

Chemical name	European Union
Methoxyfenozide	Not classified
Emamectin Benzoate (ISO)	Not classified

**STOT - single exposure** H371 - May cause damage to organs. Classification based on calculation method.

**STOT - repeated exposure** Cat 2 (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** High toxicity to honeybees.  
Very toxic to aquatic life:.  
H400 - Classification based on calculation method.

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Methoxyfenozide	Acute toxicity: LC50 > 3.4 mg/l; Chronic toxicity: NOEC = NA	Acute toxicity: LC50 > 4.2 mg/l; Chronic toxicity: NOEC = 2.4 mg/l	-	Acute toxicity: LC50 > 3.7 mg/l; Chronic toxicity: NOEC = 0.39 mg/l
Emamectin Benzoate (ISO)	-	Acute toxicity: LC50=0.174 mg/L	-	Acute toxicity: LC50=0.00004 mg/L Chronic toxicity: NOEC=0.000088 mg/L

### 12.2. Persistence and degradability

**Persistence and degradability** Not rapidly degradable (Emamectin Benzoate). Moderately to very persistent (Methoxyfenozide).

### 12.3. Bioaccumulative potential

**Bioaccumulation** Low potential for bioaccumulation (Emamectin benzoate, Methoxyfenozide).

**Bioconcentration factor (BCF)** 82 L/Kg (Emamectin Benzoate); 11 L/Kg (Methoxyfenozide)

**Component Information**

Chemical name	Partition coefficient
Methoxyfenozide	Log P = 3.72 (pH 7, 20 °C)
Emamectin Benzoate (ISO)	5.0

**12.4. Mobility in soil**

**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.

**12.6. Other adverse effects**

**Endocrine Disruptor Information**

Chemical name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disrupters - Evaluated Substances
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	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. [Methoxyfenozide], [Emamectin Benzoate]
- 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. [Methoxyfenozide], [Emamectin Benzoate]
- 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. [Methoxyfenozide], [Emamectin Benzoate]
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. [Methoxyfenozide], [Emamectin Benzoate]
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
Quarz (SiO <sub>2</sub> ), respirable particles 14808-60-7	RG 25	-

**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 does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not applicable

**Dangerous substance category per Seveso Directive (2012/18/EU)**

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

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

**International Inventories**

<b>TSCA</b>	Contact supplier for inventory compliance status
<b>DSL/NDL</b>	Contact supplier for inventory compliance status
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status
<b>ENCS</b>	Contact supplier for inventory compliance status
<b>IECSC</b>	Contact supplier for inventory compliance status
<b>KECL</b>	Contact supplier for inventory compliance status
<b>PICCS</b>	Contact supplier for inventory compliance status
<b>AICS</b>	Contact supplier for inventory compliance status

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - 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  
H311 - Toxic in contact with skin  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H331 - Toxic if inhaled  
H370 - Causes damage to organs  
H372 - Causes damage to organs through prolonged or repeated exposure  
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**

H371 - 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 02-May-2022

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**

## Europe

### Europe

Partial process, including GHS Wizard, NO TW

Specific target organ toxicity (single exposure)	Category 2
Specific target organ toxicity (repeated exposure)	Category 2

### EU SDS version information - EGHS

UL release date: 24 April 2020

GHS Revision 7

Related Documents

### Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

<b>ATEmix (oral)</b>	3,158.40 mg/kg.
<b>ATEmix (dermal)</b>	5,651.50 mg/kg.
<b>ATEmix (inhalation-dust/mist)</b>	22.20 mg/l air 4 h.

**Unknown aquatic toxicity** Contains 1.6027 % of components with unknown hazards to the aquatic environment.

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method