

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 04-Jun-2023

Revision Number 1

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

1.1. Product identifier

Product Name PERMETHROL 25
Product Code(s) TP.8008.T.1___ISR
Chemical name Permethrin 25% WP
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

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

| | |
|--------------------------|---------------------|
| Acute toxicity - Oral | Category 4 - (H302) |
| Skin sensitization | Category 1 - (H317) |
| Acute aquatic toxicity | Category 1 - (H400) |
| Chronic aquatic toxicity | Category 1 - (H410) |

2.2. Label elements



Signal word

Warning

Hazard statements

H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

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

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P302 + P352 - IF ON SKIN: Wash with plenty of water/...

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

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 Disruptors Candidate List | EU - Endocrine Disruptors - Evaluated Substances |
|------------------|------------------------------------------|--------------------------------------------------|
| Permethrin (ISO) | 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] |
|------------------|-----------|------------|----------|-----------------------------------------------------------------------------------------------------------------------------------|
| Permethrin (ISO) | 258-067-9 | 52645-53-1 | 25 | Acute tox. 4 (H302) Acute tox. 4 (H332) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) M = 10000 |

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

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

SECTION 4: First aid measures**4.1. Description of first aid measures****General advice**

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Inhalation

If breathing has stopped, give artificial respiration. Get medical attention immediately.

| | |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Remove to fresh air. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin contact | Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see 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 or poison control center immediately. |
| Self-protection of the first aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information. |

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

Symptoms Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.

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, 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

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 Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Do not breathe dust. 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. Do not breathe dust. Avoid generation of dust. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. 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. Do not breathe dust. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the 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

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

8.2. Exposure controls

Personal protective equipment

| | |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye/face protection | Wear safety glasses with side shields (or goggles). |
| Hand protection | Wear suitable gloves. |
| Skin and body protection | Wear suitable protective clothing. |
| 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 | Avoid contact with skin, eyes or clothing. Do not breathe dust. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|----------------|------------|
| Appearance | Powder |
| Physical state | solid |
| Color | Off- white |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|----------------------------------------|--------------------|-------------------------|
| pH | | |
| 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 | No data available. | |
| Water solubility | Forms a dispersion | |
| 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 Excessive heat.

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 Acute Tox. 4 (H302). Classification based on calculation method
Dermal LD50 Not classified. Based on calculation method, the classification criteria are not met.
Inhalation LC50 Not classified. Based on calculation method, the classification criteria are not met.

Skin corrosion/irritation Not classified. Based on calculation method, the classification criteria are not met.

Serious eye damage/eye irritation Not classified. Based on calculation method, the classification criteria are not met.

Respiratory or skin sensitization Skin Sens. 1 (H317). Classification based on calculation method.

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

| Chemical name | European Union |
|------------------|----------------|
| Permethrin (ISO) | Not classified |

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

| Chemical name | European Union |
|------------------|----------------|
| Permethrin (ISO) | Not classified |

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

| Chemical name | European Union |
|------------------|----------------|
| Permethrin (ISO) | Not classified |

STOT - single exposure Not classified. Based on calculation method classification criteria are not met.

STOT - repeated exposure Not classified. Based on calculation method classification criteria are not met.

Aspiration hazard Not classified. Based on calculation method 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.
 Toxic to honeybees.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------|
| Permethrin (ISO) | Acute toxicity: EC50 = 0.0125 mg/l; Chronic toxicity: NOEC = 0.0009 mg/l | Acute toxicity: LC50 = 0.0125 mg/l; Chronic toxicity: NOEC = 0.000093 mg/l | - | Acute toxicity: LC50 = 0.00002 mg/l; Chronic toxicity: NOEC = 0.0029 mg/l |

12.2. Persistence and degradability

Persistence and degradability Not be expected to persist in soil or water systems [Permethrin].

12.3. Bioaccumulative potential

Bioaccumulation Threshold for concern [Permethrin].

Bioconcentration factor (BCF) 300 L/Kg

Component Information

| Chemical name | Partition coefficient |
|------------------|------------------------------|
| Permethrin (ISO) | Log P = 6.1 (at pH 7, 20 °C) |

12.4. Mobility in soil

Mobility in soil Non-mobile in soil [Permethrin].

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 |
|------------------|---------------------------------|
| Permethrin (ISO) | 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 |
|------------------|------------------------------------------|--------------------------------------------------|
| Permethrin (ISO) | 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 | 3077 |
| 14.2 UN proper shipping name | Environmentally hazardous substance, solid, n.o.s. [Permethrin] |
| 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 | 3077 |
| 14.2 UN proper shipping name | Environmentally hazardous substance, solid, n.o.s. [Permethrin] |
| 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 | 3077 |
| 14.2 UN proper shipping name | Environmentally hazardous substance, solid, n.o.s. [Permethrin] |
| 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 | 3077 |
| 14.2 UN proper shipping name | Environmentally hazardous substance, solid, n.o.s. [Permethrin] |
| 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)

Germany

Water hazard class (WGK) strongly hazardous to water (WGK 3)

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

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 |
|-------------------------------|----------------------------------------------------------------------|
| Permethrin (ISO) - 52645-53-1 | I.1 |

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

H2 - ACUTE TOXIC

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

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

| | |
|------|--------------------------------------------------------|
| H302 | - Harmful if swallowed |
| H317 | - May cause an allergic skin reaction |
| H332 | - Harmful if inhaled |
| H400 | - Very toxic to aquatic life |
| H410 | - Very 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

| | |
|------|----------------------------------------------|
| H302 | - Classification based on calculation method |
| H317 | - 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 04-Jun-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