



LUXEMBOURG

SAFETY DATA SHEET

Issue date: 05/10/2021

1. Identification of the substance or mixture and of the supplier

Product: Cypermethrin 200 g/L EC
Product commercial name: TITAN 20 EC, TITAN CE 20
Recommended use: Insecticide
Supplier: Luxembourg Industries Ltd.
27 Hamered St. Tel Aviv, 6812509, ISRAEL
Tel: +972 3 796 4300 Fax: +972 3 510 0474
Emergency phone number: +972 3 796 4300

2. Hazards identification

Classification of the product according to the Global Harmonized System of Classification and Labelling of Chemicals (GHS).

Hazard classification:

Flammable liquid:	Category 3
Acute toxicity, Oral:	Category 5
Acute toxicity, Dermal:	Category 5
Acute toxicity, Inhalation:	Category 4
Skin Irritation:	Category 2
STOT SE:	Category 3
STOT RE:	Category 2
Acute aquatic toxicity:	Category 1
Chronic aquatic toxicity:	Category 1

Label elements: Pictograms:  Signal word: Warning

Hazard statement(s):

H226	Flammable liquid and vapour.
H303 + H313	May be harmful if swallowed or in contact with skin.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H373	May cause damage to the nervous system through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s):

Prevention:	P210	Keep away from heat/sparks/open flame/hot surfaces. Not Smoking.
	P233	Keep container tightly closed.
	P242	Use only non sparking tools.
	P260	Do not breath vapours/spray.
	P271	Use only outdoors or in a well-ventilated area.
	P264	Wash hands and clothes after handling.
	P280	Wear protective gloves.
	P270	Do not eat, drink or smoke when using this product.
	P273	Avoid release to the environment.

LUXEMBOURG INDUSTRIES LTD

27 Hamered St. Tel Aviv 6812509, P.O. Box 13 Tel Aviv 6100001, ISRAEL
Tel: +972 3 796 4300 ■ Fax: +972 3 510 0474 ■ E-mail: main@luxembourg.co.il ■ www.luxpam.com

Response:	P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P332+P313	If skin irritation occurs: Get medical advice/attention.
	P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P314	Get medical advice/attention if you feel unwell.
	P391	Collect spillage.
Storage:	P403+P235	Store in a well-ventilated place. Keep cool.
	P233	Keep container tightly closed.
	P405	Store locked up.
Disposal:	P501	Dispose contents/container in accordance with local regulations.

Other hazards: Not known

3. Composition/information on ingredients

Common name:	Cypermethrin	Aromatic solvents
Chemical name:	(RS)- α -cyano-3-phenoxybenzyl (1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (IUPAC).	Trade secret
Chemical formula:	C ₂₂ H ₁₉ Cl ₂ NO ₃	Trade secret
Content:	21 % w/w	70 % w/w
CAS No.:	52315-07-8	Trade secret
EC No. :	257-842-9	Trade secret
C&L Classification:	Acute Tox, Oral: Cat. 4, H302 Acute Tox, Inhalation: Cat. 4, H332 STOT SE: Cat. 3, H335 STOT RE (nervous system): Cat. 2, H373 Acute aquatic tox.: Cat. 1, H400 Chronic aquatic tox.: Cat. 1, H410 M=100000	Flammable liquid: Cat. 3, H226 Acute Tox, Dermal: Cat. 4, H312 Acute Tox, Inhalation: Cat. 4, H332 Skin Irritation: Cat. 2, H315

4. First aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for resting. If breathing is difficult get immediate medical attention. If person is not breathing call ambulance then if possible give artificial respiration.

Ingestion: Rinse mouth with water. Do not give anything by mouth to an unconscious person. Call a poison control center or doctor if you feel unwell.

Eyes: Hold eyes open and rinse slowly and gently with water for 15 minutes. Remove contact lenses, if present, after the first 5 minutes of rinsing. If eye irritation persists, get medical advice/attention.

Skin: Take off contaminated clothing. Rinse immediately with plenty of soap and water for 15-20 minutes. If you feel unwell or skin irritation or rash occurs: get medical advice/attention.

Indication of any immediate medical attention and special treatment needed.

There is no specific antidote. Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media: Use dry chemical, CO₂, water spray or regular foam.

Specific hazards arising from the chemical: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special fire fighting procedures: Evacuate area and fight fire from a safe distance. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal; do not scatter the material. Water runoff can cause environmental damage.

Special protective equipment and precautions for fire-fighters: Wear positive pressure self-contained breathing apparatus (SCBA) and chemical protective clothing.

6. Accidental release measures

Personal precautions: Use personal protective equipment. Avoid breathing vapours or spray. Ensure adequate ventilation.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let the product enter drains. Avoid release to the environment

Methods and materials for containment and cleaning up: Absorb or cover with dry earth, sand or other non-combustible material and transfer to suitable, closed containers for disposal.

7. Handling and storage

Precautions for safe handling: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Wear protective gloves/ protective clothing/ eye protection/ face protection. Do not breathe mists/ vapours/ spray. Wash exposed skin and face thoroughly after handling. Take off contaminated clothing and wash them before reuse. Avoid release to the environment.

Conditions for safe storage including any incompatibilities: Store locked up in a cool place and out of the reach of children. Keep container tightly closed and well-ventilated place.

8. Exposure controls / personal protection

Appropriate engineering controls: Use general and local exhaust ventilation.

Occupational exposure limits:	Cypermethrin	Not established
	Aromatic hydrocarbon	ACGIH-TLV 100 ppm

Personal protective equipment:

Respiratory protection:	Use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Eye protection:	Face shield and safety glasses.
Skin /face protection:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hand protection:	The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Appearance:	Clear yellow-brown liquid.
Odour:	Aromatic solvent
pH-value:	Not available
Melting point/freezing point:	Not available
Boiling point:	Not available
Flash point:	37.8 °C
Evaporation rate:	Not available
Flammability:	Flammable
Vapour pressure (20°C):	Not available
Vapour density:	Not available
Density (20°C):	0.94 g/ml
Solubility in water (25°C):	Miscible in water
Partition coefficient n-octanol/water K_{ow} log P:	5.3 to 5.6 at 25 °C (Cypermethrin technical grade)
Ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

10. Stability and reactivity

Chemical stability:	Stable under normal conditions of storage and handling. Hydrolyses with alkali. Store in a cool, well-ventilated place away from foodstuffs, reducing agents and acids.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	Protect from open flame and sources of heat. Can decompose at high temperatures, forming toxic gases. Flammable.

Incompatible materials:	Avoid contact with: oxidizing materials, oxidizers, strong acids and strong bases.
Hazardous decomposition products:	Halogenated compounds, oxides of nitrogen, oxides of carbon.

11. Toxicological information (*)

Acute toxicity

Oral LD ₅₀ (rat):	287 mg/kg bw (corn oil)
Dermal LD ₅₀ (rabbit):	>2000 mg/kg bw
Inhalation LC ₅₀ (4 h, rat):	>3.28 mg/L

Skin corrosion/irritation (**)

Skin irritation (rabbit):	Irritant
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Serious eye damage/irritation (**)

Eye irritation (rabbit):	Irritant
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Respiratory or skin sensitization (**)

Dermal sensitization (guinea pig):	May cause sensitization by skin contact.
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Genotoxicity:	No genotoxic potential.
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Carcinogenicity	No carcinogenic potential. Not listed as a carcinogen by IARC.
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Reproductive toxicity	Not available.
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STOT- Single exposure	May cause respiratory irritation.
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STOT- Repeated exposure	May cause damage to the nervous system through prolonged or repeated exposure.
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Aspiration hazard	May cause respiratory irritation.
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Signs and symptoms of poisoning	Poisoning typically show severe salivation, hyperexcitability and choreoathetosis. Other signs and symptoms of toxicity include abnormal facial sensation, dizziness, headache, fatigue, vomiting, diarrhea and irritability to sound and touch. In more severe cases, pulmonary edema, muscle fasciculations, seizures and coma can develop. A large ingestion (200 to 500 mL) of concentrated formulations may cause coma and seizures within 20 minutes. Initial symptoms following ingestion include gastrointestinal events (<i>i.e.</i> , abdominal pain, vomiting and diarrhea) generally within 10 to 60 minutes.
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(*) Technical grade

(**) Solvent

12. Ecological information (*)

Ecotoxicity:

Birds:	<i>Anas platyrhynchos</i> LD ₅₀ :	>10000 mg/kg
Fish:	<i>Salmo gairdneri</i> LC ₅₀ (96 h):	0.0028 mg/L

Crustacea: <i>Daphnia magna</i> EC ₅₀ (48 h):	0.0003 mg/L
Algae: <i>Selenastrum capricornutum</i> EC ₅₀ (96h):	> 0.1 mg/L
Bees:	
LD ₅₀ (48 h, oral)	0.035 µg/bee
LD ₅₀ (Contact)	0.020 µg/bee

Persistence and degradability: Not readily biodegradable

Bioaccumulative potential: Bioconcentration factor (BCF): 1204 (*Salmo gairdneri*).

Mobility in soil: Not available

(*) Technical grade

13. Disposal considerations

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. Transport information

UN No.:	3351
Proper shipping name:	Pyrethroid pesticide, liquid, toxic, flammable (cypermethrin and aromatic solvent)
Transport hazard class:	6.1 (3)
Packaging group:	III
Marine pollutant:	Yes

15. Regulatory information

This data sheet complies with the requirements of the Global Harmonized System of Classification and Labelling of chemicals (GHS).

16. Other information

The information contained herein is applicable solely to the indicated product, and does not relate to any other use of this product as described. Its use is intended by persons having technical skill and at their own discretion and risk. The information has been developed from sources reliable. This information is furnished without warranty, expressed or implied, including the warranties of merchantability and fitness for a particular purpose is made with respect to the information contained herein.

Version:	2
Replaces version of:	26/08/2013 (EA)
Issue date:	05/10/2021 (EA)