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 22-Feb-2023 **Revision Number** 1

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

1.1. Product identifier

Product Name **ACARITHINE 20**

Product Code(s) TP.7001.V.1___ISR

Chemical name Permethrin 200 EC

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 - Inhalation (Dusts/Mists)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitization	Category 1 - (H317)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)
Flammable liquids	Category 3 - (H226)

2.2. Label elements

Signal word
Danger

Hazard statements
H226 - Flammable liquid and vapor
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H332 - Harmful if inhaled
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
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P260 - Do not breathe 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
P310 - Immediately call a POISON CENTER or doctor/physician
P391 - Collect spillage
P403 + P235 - Store in a well-ventilated place. Keep cool
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
Permethrin (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]
Permethrin (ISO)	258-067-9	52645-53-1	20	Acute tox. 4 (H302) Acute tox. 4 (H332) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) M = 10000
Xylene	215-535-7	1330-20-7	68-76	Acute Tox. 4 (H312)

				Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Flam. Liq. 3 (H226)
4-Nonylphenol branched, ethoxylated	-	127087-87-0	3-5	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)
Benzenesulfonic acid, C10-13-alkyl calcium salt	-	932-231-6	2-4	Skin irrit. 2 (H315) Eye dam.1 (H318) Aquatic Chronic 3 (H412)
2-ethylhexan-1-ol	203-234-3	104-76-7	1-3	Skin irrit. 2 (H315) Eye Irrit.2 (H319) Acute Tox.4 (H332) STOT SE 3 (H335)

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
4-Nonylphenol branched, ethoxylated	127087-87-0	X

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediate medical attention is required.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. Immediately call a POISON CENTER or doctor.

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.

Self-protection of the first aider First aider: Pay attention to self-protection. Remove all sources of ignition. Wear personal protective clothing (see section 8).

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 containers tightly closed in a dry, cool 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
Xylene 1330-20-7	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ *	TWA: 50 ppm TWA: 221 mg/m³ STEL 100 ppm STEL 442 mg/m³	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ *	TWA: 210 mg/m³ STEL: 442 mg/m³ H*	STEL: 100 ppm STEL: 442 mg/m³ TWA: 50 ppm TWA: 221.0 mg/m³ K*
2-ethylhexan-1-ol 104-76-7	-	TWA: 1 ppm TWA: 5.4 mg/m³ STEL 2 ppm STEL 10.8 mg/m³	TWA: 1 ppm TWA: 5.4 mg/m³ *	TWA: 5.4 mg/m³	TWA: 5.4 mg/m³ TWA: 1 ppm

Chemical name	Denmark	Germany	France	United Kingdom	Spain
Xylene 1330-20-7	TWA: 25 ppm TWA: 109 mg/m³ H*	TWA: 100 ppm TWA: 440 mg/m³ H*	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ *	TWA: 50 ppm TWA: 220 mg/m³ STEL: 100 ppm STEL: 441 mg/m³ Sk*	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ vía dérmica*
2-ethylhexan-1-ol 104-76-7	TWA: 1 ppm TWA: 5.4 mg/m³ H*	TWA: 10 ppm TWA: 54 mg/m³	TWA: 50 ppm TWA: 270 mg/m³	TWA: 1 ppm TWA: 5.4 mg/m³ STEL: 3 ppm STEL: 16.2 mg/m³	TWA: 1 ppm TWA: 1.54 mg/m³ vía dérmica*

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Xylene 1330-20-7	-	1.5 g/L (urine - Methylhippuric acid after end of work day, at the end of a work week/end of the shift)	-	1.50 mg/L - blood (Xylene) - at the end of the work shift 1.50 g/g Creatinine - urine (Methylhippuric acid) - at the end of the work shift	820 µmol/mmol Creatinine (urine - Methylhippuric acid end of shift) 1400 mg/g Creatinine (urine - Methylhippuric acid end of shift)

Chemical name	Denmark	Finland	France	Germany	Germany MAK
Xylene 1330-20-7	-	5.0 mmol/L (urine - Methylhippuric acid after the shift)	1500 mg/g creatinine - urine (Methylhippuric acid) - end of shift	2000 mg/L (urine - Methylhippuric(tolur-)acid (all isomers) end of shift) 2000 mg/L - BAT (end of exposure or end of shift) urine	2000 mg/L (urine - Methylhippuric(tolur-)acid (all isomers) end of shift)

Chemical name	Hungary	Ireland	Italy	Italy REL
Xylene 1330-20-7	-	1.5 g/g Creatinine (urine - Methylhippuric acids end of shift)	-	1.5 g/g Creatinine - urine (Methylhippuric acid) - end of shift

Chemical name	Latvia	Luxembourg	Romania	Slovakia
Xylene 1330-20-7	-	-	3 g/L - urine (Methylhippuric acid) - end of shift	1.5 mg/L - blood (Xylene) - end of exposure or work shift 2000 mg/L - urine (Methylhippuric acid) - end of exposure or work shift

Chemical name	Slovenia	Spain	Switzerland	United Kingdom
Xylene 1330-20-7	2 g/L - urine (Methylpuric acid (all isomers)) - at the end of the work shift	1 g/g Creatinine (urine - Methylhippuric acids end of shift)	2 g/L (urine - Methylhippuric acid end of shift)	650 mmol/mol creatinine - urine (Methyl hippuric acid) - post shift

8.2. Exposure controls

Personal protective equipment

Eye/face protection Safety glasses with side shields are recommended for medical or industrial exposures.

Skin and body protection Protective shoes or boots. Wear fire/flame resistant/retardant 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 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 light yellow
Odor Aromatic Hydrocarbons.

Property	Values	Remarks • Method
pH	4.0 - 7.0	
pH (as aqueous solution)		
Melting point / freezing point		
Boiling point / boiling range		
Flash point	> 40 °C	
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	0.9 - 1.0	
Water solubility	< 0.02 ppm	
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. 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 Acute Tox. 4 - H332. Classification based on calculation method

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

Serious eye damage/eye irritation H318 - Causes serious eye damage. 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
Permethrin (ISO)	Not classified
Xylene	Not classified
4-Nonylphenol branched, ethoxylated	Not classified
Benzenesulfonic acid, C10-13-alkyl calcium salt	Not classified
2-ethylhexan-1-ol	Not classified

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

Chemical name	European Union
Permethrin (ISO)	Not classified
Xylene	Not classified
4-Nonylphenol branched, ethoxylated	Not classified
Benzenesulfonic acid, C10-13-alkyl calcium salt	Not classified
2-ethylhexan-1-ol	Not classified

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

Chemical name	European Union
Permethrin (ISO)	Not classified
Xylene	Not classified
4-Nonylphenol branched, ethoxylated	Not classified
Benzenesulfonic acid, C10-13-alkyl calcium salt	Not classified
2-ethylhexan-1-ol	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 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.
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)
Xylene	2.77 - 3.15

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
Xylene	The substance is not PBT / vPvB
4-Nonylphenol branched, ethoxylated	The substance is not PBT / vPvB
Benzenesulfonic acid, C10-13-alkyl calcium salt	The substance is not PBT / vPvB
2-ethylhexan-1-ol	The substance is not PBT / vPvB

12.6. Other adverse effects

Endocrine Disruptor Information

Chemical name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disrupters - Evaluated Substances
Permethrin (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 1993
14.2 UN proper shipping name Flammable liquid, n.o.s. [Xylene]
14.3 Transport hazard class(es) 3
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 1993
14.2 UN proper shipping name Flammable liquid, n.o.s. [Xylene]
14.3 Transport hazard class(es) 3
14.4 Packing group III
14.5 Environmental hazards Yes
14.6 Special precautions for user
Special Provisions None

ADR

14.1 UN number 1993
14.2 UN proper shipping name Flammable liquid, n.o.s. [Xylene]
14.3 Transport hazard class(es) 3
14.4 Packing group III
14.5 Environmental hazards Yes
14.6 Special precautions for user
Special Provisions None

IATA

14.1 UN number 1993
14.2 UN proper shipping name Flammable liquid, n.o.s. [Xylene]
14.3 Transport hazard class(es) 3
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
Xylene	RG 4bis,RG 84	-

1330-20-7		

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

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
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
Permethrin (ISO) - 52645-53-1	I.1
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

H226 - Flammable liquid and vapor

H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
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
H412 - Harmful 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
H226 - Classification based on test data
H317 - Classification based on test data
H318 - Classification based on test data
H332 - Classification based on test data
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 22-Feb-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