



SAFETY DATA SHEET

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Imidacloprid 250 Bifenthrin 50 SC

Revision date 17-Nov-2022

Version 1 Supersedes Date: 17-Nov-2022

Product Code(s)

INS00071-972/1

Print Date 17-Nov-2022

ADM.03501.I.1.A 9503092

1. Identification

Product identifier

Imidacloprid 250 Bifenthrin 50 SC

Other means of identification

Synonyms Tapyr
Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use Insecticide; Professional use
Uses advised against No information available

Detailed information about the manufacturer, supplier, and/or importer

Supplier ADAMA Makhteshim Ltd
PO Box 60
Beer Sheva 8410001 Israel

Emergency telephone number

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E-mail address SDS@ADAMA.COM

2. Hazard(s) identification

Classification of the substance or mixture

Acute toxicity - Oral	Category 4 - (H302)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

Label elements

Signal word Warning

Hazard pictograms

**Hazard statements**

H302 - Harmful if swallowed
 H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements

P102 - Keep out of reach of children
 P270 - Do not eat, drink or smoke when using this product
 P501 - Dispose of contents/ container to an approved waste disposal plant

Other hazards

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

3. Composition/information on ingredients

Substance

Not applicable

Mixture**Synonyms**

Tapyr

Chemical name	CAS No	Weight-%	EC No	INTERNATIONAL GHS CLASSIFICATION	M-Factor
Imidacloprid	138261-41-3	20-25	428-040-8	Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=10 M=10
Bifenthrin	82657-04-3	3-6		Acute Tox. 3 (H301) Acute Tox. 3 (H331) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=10000 M=100000
Alkylnaphthalenesulfonic acid, polymer with formaldehyde, sodium salt	68425-94-5	1-3	614-476-8	Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	

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

4. First-aid measures

Description of necessary first aid measures**General advice**

In case of accident or if you feel unwell, seek medical advice immediately (show the label where 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. Get medical attention immediately if symptoms occur.

For emergency responders

Self-protection of the first aider Use personal protective equipment as required.

Most important symptoms/effects, acute and delayed

Symptoms None known.

Indication of immediate medical attention and special treatment needed, if necessary

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media

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

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the chemical No information available.

Explosive properties Not an explosive.

Specific/special fire-fighting measures

Specific/special fire-fighting measures No information available.

Special protective equipment and precautions for fire-fighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

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 Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Preventive measures for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Precautions for safe handling

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

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

8. Exposure controls/personal protection

Control parameters

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

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact (recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).

Eye/face protection Tight sealing safety goggles.

Skin and body protection Use suitable protective clothing and equipment if required, such as safety goggles certified to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water repellent woven coverall with 65% polyester and 35 % cotton.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained.

9. Physical and chemical properties

Information on basic physical and chemical properties

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Appearance			
Physical state	: Liquid		
Color	: white		
Odor	: No data available		
Odor threshold	: No data available		
pH	: 5 - 8	CIPAC MT 75	25°C
Melting point / freezing point °C	: -		Not applicable
Boiling point / boiling range °C	: No data available		
Flash point °C	: > 77	CIPAC MT 12	boiled - 77
Evaporation rate	: No data available		
Flammability (solid, gas)	: Not applicable for liquids		
Upper/lower flammability or explosive limits	: No data available		
Vapor pressure kPa	: -		Not applicable
Vapor density	: No data available		
Relative density	: 1.08 - 1.14	CIPAC MT 3	
Solubility(ies) mg/l	: -		Not applicable
Partition coefficient Log Pow	:		See Section 12 for additional Ecological Information
Autoignition temperature °C	: No data available		
Decomposition temperature °C	: No data available		
Kinematic viscosity mm ² /s 40 °C	: 516	OECD 114	24°C
Explosive properties	: Not an explosive	OECD 113	
Oxidizing properties	: No data available		
Surface tension	: -		No data available
Particle Size	: Not applicable		
Other information			
Bulk density g/ml	: Not applicable		

10. Stability and reactivity

Reactivity

Reactivity No information available.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid None known based on information supplied.

Incompatible materials

Incompatible materials None known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on toxicological effects

Acute toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: 1098	Rat	OECD 425	Maximum attainable concentration
Dermal LD50 mg/kg	: > 4000	Rat	OECD 402	
Inhalation LC50 LC50	: > 2.05	Rat	OECD 403	
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Not irritating to eyes	Rabbit	OECD 405	
Sensitization	: Not a skin sensitizer	Guinea pig	OECD 406	

Chronic toxicity

Germ cell mutagenicity

Chemical name

Imidacloprid	: Not classified
Bifenthrin	: Not classified

Carcinogenicity

Chemical name

Imidacloprid	: Not Carcinogenic
Bifenthrin	: Not classified

Reproductive toxicity

Chemical name

Imidacloprid	: Not toxic for the reproductive system
Bifenthrin	: Not classified

STOT - Single Exposure

Chemical name

Imidacloprid	: No data available
Bifenthrin	: No data available

STOT - Repeated Exposure

Chemical name

Imidacloprid	: No data available
Bifenthrin	: No data available

Aspiration hazard

Chemical name

Imidacloprid	: No data available
Bifenthrin	: No data available

12. Ecological information

Ecotoxicity

Aquatic toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Acute toxicity				
Fish 96-hour LC50 mg/l	: 0.43	P. reticulata	OECD 203	
Crustacea 48-hour EC50 mg/l	: 0.38	Daphnia magna	OECD 202	

Algae 72-hour EC50 mg/l	:	0.52	Selenastrum capricornutum	OECD 201	
Other plants EC50 mg/l	:	No data available			No data available
Chronic aquatic toxicity		<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish NOEC mg/l	:	No data available			
Crustacea NOEC mg/l	:	No data available			
Algae NOEC mg/l	:	No data available			
Other plants NOEC mg/l	:	No data available			
Terrestrial Toxicity					
Birds Oral LD50 mg/kg					
Chemical name					
Imidacloprid	:	31	Coturnix japonica	OECD 205	
Bifenthrin	:	1800	Bobwhite quail	EPA-OPPTS 850.2100	
Bees Oral LD50 µg/bee					
Chemical name					
Imidacloprid	:	0.0037		OECD 213 OECD 214	
Bifenthrin	:	0.39		OECD 213 OECD 214	Oral
Abiotic Degradation					
Water DT50 days					
Chemical name					
Imidacloprid	:	0.2-10			
Bifenthrin	:	161.1			
Soil DT50 days					
Chemical name					
Imidacloprid	:	106-193			
Bifenthrin	:	86.8			Field
Biodegradation					
Chemical name					
Imidacloprid	:	Not readily biodegradable			
Bifenthrin	:	No data available			
Log Pow					
Chemical name					
Imidacloprid	:	0.57		OECD 107	
Bifenthrin	:	> 6.71		OECD 107	
Bioconcentration factor (BCF)					
Chemical name					
Imidacloprid	:	0.88			
Bifenthrin	:	417		OECD 305	
Adsorption/Desorption					
Chemical name					
Imidacloprid	:	109-411		OECD 106	KOC
Bifenthrin	:	236,610			KOC Not mobile

13. Disposal considerations

Disposal methods

Waste from residues/unused products Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

14. Transport information

ADR

14.1 UN number UN3082
14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Imidacloprid, Bifenthrin)
14.3 Transport hazard class(es) 9
Labels 9
14.4 Packing group III
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Imidacloprid, Bifenthrin), 9, III
14.5 Environmental hazard Yes
14.6 Special Precautions for Users
Special Provisions 274, 335, 601, 375
Classification code M6

RID

14.1 UN number UN3082
14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Imidacloprid, Bifenthrin)
14.3 Transport hazard class(es) 9
Labels 9
14.4 Packing group III
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Imidacloprid, Bifenthrin), 9, III
14.5 Environmental hazard Yes
14.6 Special Precautions for Users
Special Provisions 274, 335, 375, 601
Classification code M6

IMDG

14.1 UN number UN3082
14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Imidacloprid, Bifenthrin)
14.3 Hazard Class 9
14.4 Packing group III
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Imidacloprid, Bifenthrin), 9, III, Marine pollutant
14.5 Marine pollutant P
Environmental hazard Yes
14.6 Special Precautions for Users
Special Provisions 274, 335, 969
EmS-No F-A, S-F
IMDG Stowage and segregation Category A
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code No information available

IATA

14.1 UN number UN3082
14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Imidacloprid, Bifenthrin)
14.3 Transport hazard class(es) 9
14.4 Packing group III
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.5 Environmental hazard	(Imidacloprid, Bifenthrin), 9, III Yes
14.6 Special Precautions for Users	
Special Provisions	A97, A158, A197
ERG Code	9L



* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

16. Other information

Full text of H-Statements referred to under section 3

H301 - Toxic if swallowed
H302 - Harmful if swallowed
H319 - Causes serious eye irritation
H331 - Toxic if inhaled
H373 - May cause damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

Date of preparation of the SDS No data available

Revision date 17-Nov-2022

Revision Note Changes made to the last version are labeled with this sign ***.

Key or legend to abbreviations and acronyms used in the safety data sheet

IMDG	International Maritime Dangerous Goods (IMDG)
IATA	International Air Transport Association (IATA)
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Abbreviations and acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CAS Number - Chemical Abstracts Service number
EC Number - EINECS and ELINCS Number
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
OECD - Organization for Economic Co-operation and Development
PBT - Persistent, Bioaccumulative and Toxic substance
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
STOT - Specific Target Organ Toxicity
vPvB - Very Persistent and Very Bioaccumulative

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Classification of the mixture

H302 - Harmful if swallowed
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

Classification procedure

Classification based on test data
Classification based on test data
Classification based on Calculation method

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