



# SAFETY DATA SHEET

## Fighter

Revision Date 30-Jan-2019

Version 2

Product No INS00071-972

Publish Date 30-Jan-2019

R-22761 9503092 CMT-105

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product identifier

## Fighter

Pure substance/mixture Mixture

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

Recommended Use Insecticide  
Uses advised against No information available

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

Supplier Address ADAMA Makhteshim Ltd  
PO Box 60  
Beer Sheva 8410001 Israel

### For further information, please contact

Email address SDS@ADAMA.COM

### Emergency Telephone

Emergency Telephone +972-03-6106666 Subscription no. 36789 (ADAMA Makhteshim Ltd.)

## Section 2: HAZARDS 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

### Hazard pictograms



**Signal word**

Warning

**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**

No information available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

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

### Section 4: FIRST AID MEASURES

First aid measures

**General advice**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if 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. If symptoms persist, call a physician.

**Self-protection of the first aider**

Use personal protective equipment as required.

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

**Symptoms** None known

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

**Note to physicians** Treat symptomatically.

**Section 5: FIRE-FIGHTING MEASURES**

**Extinguishing media**

**Suitable Extinguishing Media**

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

**Unsuitable Extinguishing Media**

No information available.

**Special hazards arising from the substance or mixture**

No specific hazard known.

**Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus

In the event of fire and/or explosion do not breathe fumes.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

Use personal protective equipment as required.

**For emergency responders**

Use personal protection recommended in Section 8.

**Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

**Methods and material for containment and cleaning up**

**Methods for cleaning up**

Take up mechanically, placing in appropriate containers for disposal.

**Reference to other sections**

**Other Information**

See also section 8,13

**Section 7: HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling**

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

**General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

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

**Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

**Specific end use(s)**

**Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**National occupational exposure limits**

**Exposure controls**

**Engineering Controls**                      Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

- Eye/face protection**                      Tight sealing safety goggles.
- Hand Protection**                              Gloves made of plastic or rubber.
- Body Protection**                              Suitable protective clothing.
- Respiratory protection**                      Use only with adequate ventilation.

**General Hygiene Considerations**      When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

**Environmental exposure controls**      Do not allow into any sewer, on the ground or into any body of water.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Physical and Chemical Properties**

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
<b>Appearance</b>			
<b>Physical state</b>	: Liquid		
<b>Color</b>	: white		
<b>Odor</b>	: No data available		
<b>Odor threshold</b>	: No data available		
<b>pH</b>	: 6 - 8	CIPAC MT 75	21.9 °C
<b>Melting point/freezing point °C</b>	: -		Not Applicable
<b>Boiling point/boiling range °C</b>	: No data available		
<b>Flash point °C</b>	: > 77		
<b>Evaporation rate</b>	: Not Applicable		
<b>Flammability (solid, gas)</b>	: Not applicable for liquids		
<b>Upper/lower flammability or explosive limits</b>	: No data available		
<b>Vapor pressure kPa</b>	: -		Not Applicable
<b>Vapor density</b>	: No data available		
<b>Relative density</b>	: 1.08 - 1.14	CIPAC MT 3	
<b>Solubility(ies) mg/l</b>	: -		Not Applicable
<b>Partition Coefficient (n-octanol/water) Log Pow</b>	:		See Section 12 for more information

<b>Autoignition temperature</b> °C	:	No data available		
<b>Decomposition temperature</b> °C	:	No data available		
<b>Kinematic viscosity</b> mm <sup>2</sup> /s 40 °C	:	463	OECD 114	24 °C
<b>Explosive properties</b>	:	Not an explosive	OECD 113	
<b>Oxidizing properties</b>	:	No data available		

**Other Information**

<b>Bulk density</b> g/ml	:			Not Applicable
<b>Surface tension</b> mN/m	:	-		No data available

**Section 10: STABILITY AND REACTIVITY**

**Reactivity**

Not available.

**Chemical stability**

Stable under normal conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible Materials**

No information available

**Hazardous Decomposition Products**

None under normal use conditions.

**Section 11: TOXICOLOGY INFORMATION**

**Information on toxicological effects**

**Acute toxicity**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
<b>Oral LD50</b> mg/kg	: 1098	Rat	OECD 425	
<b>Dermal LD50</b> mg/kg	: > 4000	Rat	OECD 402	
<b>Inhalation LC50</b> mg/l/4h	: > 2.05	Rat	OECD 403	Maximum attainable concentration

<b>Skin corrosion/irritation</b>	:	Non-irritating to the skin	Rabbit	OECD 404
<b>Serious eye damage/eye irritation</b>	:	Not irritating to eyes	Rabbit	OECD 405
<b>Respiratory/skin sensitization</b>	:	Not a skin sensitizer	Guinea pig	OECD 406

**Chronic toxicity**

**Germ cell mutagenicity**

<b>Chemical Name</b>	:	
Imidacloprid	:	Not classified
Bifenthrin	:	Not classified

**Carcinogenicity**

<b>Chemical Name</b>	:	
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

**Section 12: ECOLOGICAL INFORMATION**

**Toxicity**

**Aquatic toxicity**

<b>Acute toxicity</b>	<b>Values</b>	<b>Species</b>	<b>Method</b>	<b>Remarks</b>
<b>Fish 96-hour LC50 mg/l</b>	: 0.43	P. reticulata	OECD 203	
<b>Crustacea 48-hour EC50 mg/l</b>	: 0.38	Daphnia magna	OECD 202	
<b>Algae 72-hour EC50 mg/l</b>	: 0.52	Selenastrum capricornutum	OECD 201	
<b>Other plants EC50 mg/l</b>	:			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

**Persistence and degradability**

**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

**Bioaccumulative potential**

Partition Coefficient (n-octanol/water) Partition Coefficient (n-octanol/water) Log Pow	Values	Method	Remarks
Chemical Name			
Imidacloprid	: 0.57	OECD 107	
Bifenthrin	: > 6.71	OECD 107	

**Bioconcentration factor (BCF)**

Chemical Name			
Imidacloprid	: 0.88		
Bifenthrin	: 417	OECD 305	

**Mobility in soil**

Adsorption/Desorption Chemical Name	Values	Method	Remarks
Imidacloprid	: 109-411	OECD 106	Koc
Bifenthrin	: 236,610		Koc, Not mobile

**Results of PBT and vPvB assessment**

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

**Other adverse effects**

No information available.

**Section 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

<b>Waste from residues/unused products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Improper disposal or reuse of this container may be dangerous and illegal.
<b>Other Information</b>	Waste codes should be assigned by the user based on the application for which the product was used.

**Section 14: TRANSPORTATION INFORMATION**

**IMDG/IMO**

<b>UN/ID No *</b>	3082
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Imidacloprid, Bifenthrin )
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Marine pollutant</b>	Yes
<b>Special precautions for user</b>	

**RID/ADR**

<b>UN/ID No *</b>	3082
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Imidacloprid, Bifenthrin )

Hazard Class 9  
Packing Group III  
Environmental hazard Yes  
Special precautions for user

ICAO/IATA

UN/ID No \* 3082  
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Imidacloprid, Bifenthrin )

Hazard Class 9  
Packing Group III  
Environmental hazard Yes  
Special precautions for user  
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable



\* 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.

## Section 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

## Section 16: OTHER INFORMATION

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

### List of 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

### Disclaimer

The information provided in this Material 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