



# SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Annex II

## Admiral super

Revision Date 11-Apr-2018

Version 1

Product No INS00041-972

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R-26314 9504168 CMT-107

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

#### 1.1. Product identifier

### Admiral super

Pure substance/mixture

Mixture

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

Recommended Use

Insecticide

Uses advised against

No information available

#### 1.3. 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

#### 1.4. Emergency telephone number

Emergency Telephone

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

### Section 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral

Category 4 - (H302)

Acute aquatic toxicity

Category 1 - (H400)

Hazardous to the Aquatic

Category 1 - (H410)

Environment - Chronic Hazard

#### 2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

<b>Hazard Statements</b>	H302 - Harmful if swallowed H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects
<b>Precautionary Statements</b>	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
<b>EU Specific Hazard Statements</b>	EUH401 - To avoid risks to human health and the environment, comply with the instructions for use EUH208 - Contains 1,2-Benzisothiazolin-3-one, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one. May produce an allergic reaction
<b>Additional phrases for PPP</b>	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**

No information available

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2 Mixture**

Chemical Name	Weight-%	CAS No	EC No	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	M-Factor	REACH Registration Number
Novaluron	4 - 6	116714-46-6	-	-	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=1 M=1000	-
Bifenthrin	4 - 6	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	-
Poly(oxy-1,2-ethanediy l), .alpha.-sulfo-.omega.-[ tris(1-phenylethyl)phenoxy -, ammonium salt	1 - 2	119432-41-6	-	-	Aquatic Chronic 3 (H412)		-
1,2-Benzisothiazolin-3-one	< 0.1	2634-33-5	220-120-9	613-088-00-6	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)		-
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one	< 0.1	55965-84-9	-	613-167-00-5	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		-

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

**Section 4: FIRST AID MEASURES**

**4.1. Description of first aid measures**

**General advice** In case of accident or unwellness, seek medical advice immediately (show directions for

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	use or safety data sheet if possible). First aider: Pay attention to self-protection!.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required.

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

**Symptoms** None known

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

**Note to physicians** Treat symptomatically.

**Section 5: FIRE-FIGHTING MEASURES**

**5.1. Extinguishing media**

**Suitable Extinguishing Media**

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

**Unsuitable Extinguishing Media**

No information available.

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

No specific hazard known.

**5.3. 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**

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

**Personal precautions**

Use only with adequate ventilation.

**For emergency responders**

Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so.

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

Take up mechanically, placing in appropriate containers for disposal.

**6.4. Reference to other sections**

**Other Information**  
See also section 8,13

**Section 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

**Advice on safe handling**  
Use only with adequate ventilation.

**General Hygiene Considerations**  
Do not eat, drink or smoke when using this product.

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

Keep container tightly closed in a dry and well-ventilated place.

**7.3. 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**

**8.1. Control parameters**

Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one e 55965-84-9	Skin TWA: 0.05 mg/m <sup>3</sup>				

**8.2. 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**                      In case of insufficient ventilation, wear suitable respiratory equipment.
- General Hygiene Considerations**              Do not eat, drink or smoke when using this product.
- Environmental exposure controls**              No information available.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Appearance			

<b>Physical state</b>	: Liquid		
<b>Color</b>	: white		
<b>Odor</b>	: characteristic		
<b>Odor threshold</b>	: No data available		
<b>pH</b>	: 5.5 - 6.5	CIPAC MT 75	1 %; 22 °C
<b>Melting point/freezing point °C</b>	: ---		Not Applicable
<b>Boiling point/boiling range °C</b>	: 130	CIPAC MT 12	
<b>Flash point °C</b>	: ---	CIPAC MT 12, CC (closed cup)	Not flammable
<b>Evaporation rate</b>	: ---		No data available
<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>	: 1.0 - 1.1	OECD 109	24 °C
<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 °C</b>	: ---		No data available
<b>Decomposition temperature °C</b>	: No data available		
<b>Kinematic viscosity mm<sup>2</sup>/s 40 °C</b>	: 595	OECD 114	23 °C
<b>Explosive properties</b>	: Not an explosive	OPPTS 830.6316	
<b>Oxidizing properties</b>	: No data available		
<b>9.2. Other information</b>			
<b>Bulk density g/ml</b>	: ---		Not Applicable
<b>Surface tension mN/m</b>	: ---		No data available

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal processing.

### 10.4. Conditions to avoid

Heat, flames and sparks.

### 10.5. Incompatible materials

No information available

### 10.6. Hazardous decomposition products

None under normal use conditions.

## Section 11: TOXICOLOGY INFORMATION

### 11.1. Information on toxicological effects

Acute toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: 310.2	Rat	OECD 425	
Dermal LD50 mg/kg	: > 2000	Rat	OECD 402	
Inhalation LC50 mg/l/4h	: > 1.54	Rat	OECD 403	Maximum attainable concentration
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Not irritating to eyes	Rabbit	OECD 405	
Respiratory/skin sensitization	: Weak Skin sensitizer	Guinea pig	OECD 406, (M&K test)	

**Chronic toxicity**

**Germ cell mutagenicity**

**Chemical Name**

Novaluron : Not classified  
 Bifenthrin : Not classified

**Carcinogenicity**

**Chemical Name**

Novaluron : Not Carcinogenic  
 Bifenthrin : Not classified

**Reproductive toxicity**

**Chemical Name**

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

**STOT - single exposure**

**Chemical Name**

Novaluron : No data available  
 Bifenthrin : No data available

**STOT - repeated exposure**

**Chemical Name**

Novaluron : No data available  
 Bifenthrin : No data available

**Aspiration hazard**

**Chemical Name**

Novaluron : No data available  
 Bifenthrin : No data available

**Section 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**Aquatic toxicity**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Acute toxicity				
Fish 96-hour LC50 mg/l	: 42.40	Poecilia reticulata	OECD 203	
Crustacea 48-hour EC50 mg/l	: 0.00028	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l	: 88.34	Selenastrum capricornutum	OECD 201	
Other plants EC50 mg/l	: ---			No data available

**Terrestrial Toxicity**

**Birds Oral LD50 mg/kg**

**Chemical Name**

Novaluron : > 2000 Bobwhite quail US EPA 71-1  
 Bifenthrin : 1800 Bobwhite quail EPA-OPPTS 850.2100

**Bees Oral LD50 µg/bee**

Chemical Name			
Novaluron	: > 100	Apis mellifera	EPPO 170
Bifenthrin	: 0.39		OECD 213, OECD 214 Oral

**12.2. Persistence and degradability**

<b>Abiotic Degradation</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
<b>Water DT50 days</b>			
Chemical Name			
Novaluron	: ---		No data available
Bifenthrin	: 161.1		
<b>Soil DT50 days</b>			
Chemical Name			
Novaluron	: ---		No data available
Bifenthrin	: 86.8		Field
<b>Biodegradation</b>			
Chemical Name			
Novaluron	: No data available		
Bifenthrin	: No data available		

**12.3. Bioaccumulative potential**

<b>Partition Coefficient (n-octanol/water) Log Pow</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
Chemical Name			
Novaluron	: 4.3	OECD 107	
Bifenthrin	: > 6.71	OECD 107	
<b>Bioconcentration factor (BCF)</b>			
Chemical Name			
Novaluron	: ---		No data available
Bifenthrin	: 417	OECD 305	

**12.4. Mobility in soil**

<b>Adsorption/Desorption</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
Chemical Name			
Novaluron	: 9598		Koc
Bifenthrin	: 236,610		Koc, Not mobile

**12.5. Results of PBT and vPvB assessment**

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

**12.6. Other adverse effects**

No information available.

**Section 13: DISPOSAL CONSIDERATIONS**

**13.1. 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**

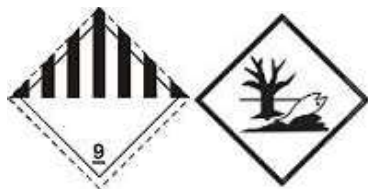
- 14.1 UN/ID No \* 3082
- 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Novaluron, Bifenthrin )
- 14.3 Hazard Class 9
- 14.4 Packing Group III
- 14.5 Marine pollutant Yes
- 14.6 Special precautions for user

**RID/ADR**

- 14.1 UN/ID No \* 3082
- 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Novaluron, Bifenthrin )
- 14.3 Hazard Class 9
- 14.4 Packing Group III
- 14.5 Environmental hazard Yes
- 14.6 Special precautions for user
- 14.7 Tunnel restriction code -

**ICAO/IATA**

- 14.1 UN/ID No \* 3082
- 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( Novaluron, Bifenthrin )
- 14.3 Hazard Class 9
- 14.4 Packing Group III
- 14.5 Environmental hazard Yes
- 14.6 Special precautions for user
- 14.7 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**

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

**15.2. Chemical safety assessment**

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

**Section 16: OTHER INFORMATION**



**Full text of H-Statements referred to under sections 2 and 3**

- H301 - Toxic if swallowed
- H302 - Harmful if swallowed
- H311 - Toxic in contact with skin
- H314 - Causes severe skin burns and eye damage
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H318 - Causes serious eye damage
- H330 - Fatal if inhaled
- H331 - Toxic if inhaled
- H373 - May cause damage to organs through prolonged or repeated exposure if inhaled
- 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

**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

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

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

**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**