



SAFETY DATA SHEET

Admiral Super

Revision Date 01-May-2016

Version 1.01

Product No INS00041-S

Publish Date 15-Aug-2016

R-26314 / CMT-107

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

Product identifier

Admiral Super

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
Novaluron	4 - 6	116714-46-6
Bifenthrin	4 - 6	82657-04-3
Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-[tris(1-phenylethyl)phenoxy -, ammonium salt	1 - 2	119432-41-6

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

Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

Self-protection of the first aider

Use personal protective equipment as required.

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 only with adequate ventilation.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

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 only with adequate ventilation.

General Hygiene Considerations

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.

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.
Body Protection Suitable protective clothing.

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
Physical and Chemical Properties

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Appearance			
Physical state	: Liquid		
Color	: white		
Odor	: characteristic		
Odor threshold	: No data available		
pH	: 5.5 - 6.5	CIPAC MT 75	1 %; 22 °C
Melting point/freezing point °C	: ----		Not Applicable
Boiling point/boiling range °C	: 130	CIPAC MT 12	
Flash point °C	: ----	CIPAC MT 12, CC (closed cup)	Not flammable
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	: 1.0 - 1.1	OECD 109	24 °C
Solubility(ies) mg/l	: ----		Not Applicable
Partition Coefficient (n-octanol/water) Log Pow	: ----		See Section 12 for more information
Autoignition temperature °C	: ----		No data available
Decomposition temperature °C	: No data available		
Kinematic viscosity mm²/s 40 °C	: 595	OECD 114	23 °C
Explosive properties	: Not an explosive	OPPTS 830.6316	
Oxidizing properties	: No data available		
Other Information			
Bulk density g/ml	: ----		Not Applicable
Surface tension 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>
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**Toxicity****Aquatic toxicity**

Acute toxicity	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
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	

Persistence and degradability**Abiotic Degradation****Water DT50 days****Chemical Name**

Abiotic Degradation	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Water DT50 days			
Chemical Name			
Novaluron	: ----		No data available
Bifenthrin	: 161.1		

Soil DT50 days**Chemical Name**

Novaluron	: ----		No data available
Bifenthrin	: 86.8		Field

Biodegradation**Chemical Name**

Novaluron	: No data available
Bifenthrin	: No data available

Bioaccumulative potential**Partition Coefficient****(n-octanol/water) Partition****Coefficient (n-octanol/water) Log****Pow****Chemical Name**

Partition Coefficient	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
(n-octanol/water) Partition			
Coefficient (n-octanol/water) Log			
Pow			
Chemical Name			
Novaluron	: 4.3	OECD 107	
Bifenthrin	: > 6.71	OECD 107	

Bioconcentration factor (BCF)

Chemical Name			
Novaluron	: ----		No data available
Bifenthrin	: 417	OECD 305	

Mobility in soil

Adsorption/Desorption	Values	Method	Remarks
Chemical Name			
Novaluron	: 9598		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

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

Section 14: TRANSPORTATION INFORMATION
IMDG/IMO

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

RID/ADR

UN/ID No *	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Novaluron, 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. (Novaluron, Bifenthrin)
Hazard Class	9
Packing Group	III
Environmental hazard	Yes
Special precautions for user	
Transport in bulk according to	Not Applicable

Annex II of MARPOL 73/78 and the IBC Code

* 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