

SAFETY DATA SHEET

Novaluron 100 Acetamiprid 80 EC

Revision Date 08-May-2020 Version 2 Product No INS00118-E Publish Date 08-May-2020 9503143 ADM.0154.I.1.A

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

Product identifier

Novaluron 100 Acetamiprid 80 EC

Pure substance/mixture . Mixture **Formula** FC

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

ADAMA Makhteshim Ltd **Supplier Address**

PO Box 60

Beer Sheva 8410001 Israel

For further information, please contact

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Emergency Telephone

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ADAMA Agan: + 972 8 8515341

Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Acute toxicity - Oral Category 4 - (H302) Serious eye damage/eye irritation Category 1 - (H318) Skin sensitization Category 1 - (H317) Category 1B - (H360) Reproductive toxicity Specific target organ toxicity (single Category 3 - (H335)

exposure)

Acute aquatic toxicity Category 1 - (H400) Chronic aquatic toxicity Category 1 - (H410)

Label Elements

Hazard pictograms

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Signal word Danger

Hazard Statements H302 - Harmful if swallowed

> H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H335 - May cause respiratory irritation

H360 - May damage fertility or the unborn child

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

P201 - Obtain special instructions before use

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves/protective clothing/eye protection/face protection P302 + P352 - IF ON SKIN: Wash with plenty of soap and 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

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
Novaluron	7 - 11	116714-46-6		Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=1 M=1000
Acetamiprid	6 - 9	135410-20-7	603-921-1	Acute Tox. 4 (H302) Aquatic Chronic 3 (H412)	
N-Methyl-2-pyrrolidone	26 - 28	872-50-4	212-828-1	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Repr. 1B (H360) STOT SE 3 (H335)	
Poly(oxy-1,2-ethanediyl),.alp ha(C10-14)alkylomegah ydroxy, phosphate	11 - 13	68585-36-4		Skin Corr. 1B (H314)	
Triethanolamine	1 - 3	102-71-6	203-049-8	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT RE 2 (H373)	

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

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 aiderUse 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

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. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering



drains.

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. Use only with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

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. Keep containers tightly closed in a cool, well-ventilated place. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

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

Chemical Name	European Union	United Kingdom	France	Spain	Germany
N-Methyl-2-pyrrolidone 872-50-4		STEL: 75 ppm STEL: 309 mg/m³ TWA: 10 ppm TWA: 40 mg/m³ Skin	TWA: 40 mg/m³ TWA: 10 ppm STEL: 80 mg/m³ STEL: 20 ppm	S* STEL: 20 ppm STEL: 80 mg/m³ TWA: 10 ppm TWA: 40 mg/m³	TWA: 20 ppm TWA: 82 mg/m³ Ceiling / Peak: 40 ppm Ceiling / Peak: 164 mg/m³ Skin
Triethanolamine 102-71-6				TWA: 5 mg/m ³	TWA: 5 mg/m³ Ceiling / Peak: 20 mg/m³
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
N-Methyl-2-pyrrolidone 872-50-4			Skin STEL: 80 mg/m³ TWA: 40 mg/m³	TWA: 10 ppm TWA: 40 mg/m³ STEL: 20 ppm STEL: 80 mg/m³ Skin	TWA: 5 ppm TWA: 20 mg/m³ Skin
Triethanolamine 102-71-6		TWA: 5 mg/m ³		TWA: 5 mg/m ³	TWA: 0.5 ppm TWA: 3.1 mg/m ³



Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
N-Methyl-2-pyrrolidone	Skin	Skin	STEL: 80 mg/m ³	TWA: 5 ppm	TWA: 25 ppm
872-50-4	STEL 20 ppm	STEL: 40 ppm	TWA: 40 mg/m ³	TWA: 20 mg/m ³	TWA: 101 mg/m ³
	STEL 80 mg/m ³	STEL: 160 mg/m ³	Skin	Skin	Skin
	TWA: 10 ppm	TWA: 20 ppm		STEL: 20 ppm	
	TWA: 40 mg/m ³	TWA: 80 mg/m ³		STEL: 80 mg/m ³	
Triethanolamine	STEL 1.6 ppm	STEL: 20 mg/m ³		TWA: 5 mg/m ³	TWA: 5 mg/m ³
102-71-6	STEL 10 mg/m ³	TWA: 5 mg/m ³		STEL: 10 mg/m ³	
	TWA: 0.8 ppm				
	TWA: 5 mg/m ³				!

Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Tight sealing safety goggles.

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).

Body Protection Gloves made of plastic or rubber, Suitable protective clothing, Rubber boots, Wear

impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact, Wear chemical resistant clothing such as gloves,

apron, boots or whole bodysuits made from neoprene, as appropriate.

Respiratory protection Use only with adequate ventilation.

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep

away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing

Remarks

and wash it before reuse. Wear suitable gloves and eye/face protection.

Method

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

allow into any sewer, on the ground or into any body of water. Prevent product from

entering drains.

Values

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Property

roporty		<u>Values</u>	Motriou	Itomanio
Appearance				
Physical state	:	liquid		
Color	:	brown		
Odor	:	characteristic		
Odor threshold	:	No data available		
Hq	:	2.3 - 3.3	EPA-OPPTS 830.7000	1 % aqueous solution
Melting point/freezing point °C	:	-		Not Applicable
Boiling point/boiling range °C	:	No data available		
Flash point °C	:	110	CIPAC MT 12	CC (closed cup)
Evaporation rate	:	Not Applicable		
Flammability (solid, gas)	:	Not applicable for liquids		
Upper/lower flammability or	:	No data available		
explosive limits				
Vapor pressure kPa	:	-		Not Applicable
Vapor density	:	No data available		• •
			EPA-OPPTS 830.7300	

22 °C Relative density : 1.05 - 1.15

Solubility(ies) mg/l Not Applicable

Partition Coefficient See Section 12 for more

(n-octanol/water) Log Pow

Autoignition temperature °C : No data available Decomposition temperature °C : No data available

Kinematic viscosity mm2/s 40 °C: -

EEC A.14 **Explosive properties** : Not an explosive

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

information

No data available

Reactivity

Not available.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Exposure to air or moisture over prolonged periods.

Incompatible Materials

No information available

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Section 11: TOXICOLOGY INFORMATION

Information on toxicological effects

Acute toxicity

	<u>values</u>	Species	<u>Metnod</u>	<u>Remarks</u>
Oral LD50 mg/kg	: 300 - 2000	Rat	OECD 423	
Dermal LD50 mg/kg	: > 2000	Rat	OECD 402	
Inhalation LC50 mg/l/4h	: 1.61	Rat	OECD 403	Maximum attainable concentration

OECD 404 Skin corrosion/irritation : Non-irritating to the skin Rabbit Serious eye damage/eye irritation Irritating to eyes Rabbit **OECD 405** Respiratory/skin sensitization : Skin sensitizer Guinea pig **OECD 406**

Chronic toxicity

Germ cell mutagenicity

Chemical Name

Novaluron : Not classified



Acetamiprid : Not classified

Carcinogenicity

Chemical Name

Novaluron : Not Carcinogenic Acetamiprid : Not Carcinogenic

Reproductive toxicity .

Chemical Name

Novaluron : Not toxic for the reproductive system Acetamiprid : Not toxic for the reproductive system

STOT - single exposure

Chemical Name

Novaluron : No data available
Acetamiprid : No data available

STOT - repeated exposure

Chemical Name

Novaluron : No data available Acetamiprid : No data available

Aspiration hazard Chemical Name

Novaluron : No data available Acetamiprid : 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
 : 1.06
 Poecilia reticulata
 OECD 203

 Crustacea 48-hour EC50 mg/l
 : 0.04
 Daphnia magna
 OECD 202

 Algae 72-hour EC50 mg/l
 : > 100
 Selenastrum
 OECD 201

capricornutum

Other plants EC50 mg/l : 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

Novaluron : > 2000 Bobwhite quail US EPA 71-1

Acetamiprid : 98 Mallard duck

Bees Oral LD50 µg/bee

Chemical Name

Novaluron : > 100 Apis mellifera EPPO 170

Acetamiprid : 14.53 Oral

Persistence and degradability

Abiotic Degradation <u>Values</u> <u>Method</u> <u>Remarks</u>
Water DT50 days

Chemical Name

Novaluron No data available

Acetamiprid : 3.6 - 5.8

Soil DT50 days **Chemical Name**

Novaluron No data available

: 2.9 Acetamiprid Field

Biodegradation Chemical Name

Novaluron No data available Acetamiprid No data available

Bioaccumulative potential

Partition Coefficient Values Method Remarks

(n-octanol/water) Partition Coefficient (n-octanol/water) Log

Pow

Chemical Name

OECD 107 Novaluron : 4.3

Acetamiprid : 0.80 **OECD 117** pH 5.4

Bioconcentration factor (BCF)

Chemical Name

No data available Novaluron Acetamiprid No bioaccumulation

potential

Mobility in soil

Adsorption/Desorption Method Values Remarks

Chemical Name

Novaluron 9598 **KOC** Acetamiprid 71.1 - 138.4 **KOC**

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

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

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

products



UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Novaluron,

Acetamiprid)

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,

Acetamiprid)

Hazard Class9Packing GroupIIIEnvironmental hazardYes

Special precautions for user

ICAO/IATA

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Novaluron,

Acetamiprid)

Hazard Class9Packing GroupIIIEnvironmental hazardYes

Special precautions for user

Transport in bulk according to Annex II of MARPOL 73/78 and the

Not Applicable

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

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

H315 - Causes skin irritation

H319 - Causes serious eye irritation

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

H302 - Harmful if swallowed

H412 - Harmful to aquatic life with long lasting effects H314 - Causes severe skin burns and eye damage

H360D - May damage the unborn child

H335 - May cause respiratory irritation



Revision Note

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

List of Acronyms

European Agreement concerning the International Carriage of Dangerous Goods by Road

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

International Air Transport Association IATA -

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

International Maritime Dangerous Goods IMDG -

LC50 -Lethal Concentration to 50 % of a test population

Lethal Dose to 50% of a test population (Median Lethal Dose) LD50 -OECD -Organization for Economic Co-operation and Development

Persistent, Bioaccumulative and Toxic substance PBT -

RID -Regulations concerning the International Carriage of Dangerous Goods by Rail

STOT -Specific Target Organ Toxicity

Very Persistent and Very Bioaccumulative vPvB -

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