

MATERIAL SAFETY DATA SHEET

OSCAR 100 EC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name : OSCAR 100 EC
Chemical name of active ingredient(s) : 1-[3-chloro-4-(1,1,2-trifluoro-2-trifluoro-methoxyethoxy)phenyl]-3-(2,6-difluorobenzoyl)urea.
Chemical formula : Novaluron: C₁₇H₉ClF₈N₂O₄.
Code no. : R-9075.G
Manufacturer : Makhteshim Chemical Works, Ltd.
P.O.B. 60, Beer Sheva 84100, Israel.
Fax no.: 972-8-6296848-(364).
Emergency telephone number : 972-3-6106666
Subscription no.: 36789 (MAKHTESHIM).

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation.

Information on hazardous ingredients *

Common name	CAS No.	%	EC Number	Symbol	R-Phrases
Novaluron	116714-46-6	100 g/l	-	-	-
N-Methyl-2-pyrrolidone	872-50-4	Approx. 450 g/l	212-828-1	Xi	R36/38

* *Occupational Exposure Limit(s), if available, are listed in section 8*

3. HAZARDS IDENTIFICATION

Human health hazards : Irritating to eyes.
May cause sensitization by skin contact. However, the field-use dilution (0.1% in distilled water) does not cause skin sensitization.
Other information : Very toxic to aquatic organisms.

4. FIRST-AID MEASURES

Effects and symptoms

First-aid measures

Inhalation : Remove victim to fresh air. Consult a doctor in the event of any complaints.
Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. Wash out mouth with water. Consult a doctor.
Skin contact : Remove contaminated clothing. Wash off with plenty of water and soap. Consult a doctor in the event of any complaints.
Eye contact : Wash off with plenty of water for at least 15 minutes. Immediately consult an eye specialist.
Notes to a physician : There is no specific antidote. Treat symptomatically and give supportive therapy.
If ingested perform gastric lavage and administer activated charcoal.

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5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable

: In case of a small fire: dry chemical, carbon dioxide.
 In case of a large fire : Water spray, fog or regular foam.

Special fire-fighting procedures

: Fight fires from a protected location. Dike fire control water for later disposal.

Hazardous thermal (de)composition products

: CO, CO₂, NO_x, Chlorides and Fluorides.

Protection of fire-fighters

: Wear suitable protective clothing. Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

: Use appropriate protection (see section 8).

Environmental precautions

: Dispose of this material and its container at hazardous or special waste collection point. If the product has contaminated surface water, inform the appropriate authorities, Contaminated soil layers have to be dug out.

Methods for cleaning up

: In the event of minor spillage: Absorb in sand or other inert material. Use appropriate containment to avoid environmental contamination.
 In the event of major spillage: Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal. Do not empty into drains.

7. HANDLING AND STORAGE

Handling

: Do not breathe vapour. Avoid contact with skin and eyes.

Storage

: Keep locked up. Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures

: Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

Hygiene measures

: Wash hands thoroughly after handling. Wash clothing separately before re-use.

Occupational Exposure Limits

Common name

: **Novaluron**

TLV (USA)

: Not established.

Common name

: **N-Methyl-2-pyrrolidone**

TLV (USA)

: Not established.

Personal protective equipment

Respiratory system

: During spraying wear suitable respiratory equipment.

Skin and body

: Wear suitable protective clothing and chemical resistant boots.

Hands

: Wear suitable gloves.

Eyes

: Safety goggles or face shield.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid.
Colour	: Light yellow.
Odour	: Faint odour - Characteristic.
Molecular weight	: Novaluron: 492.77.
Melting point	: Novaluron: 176.5 - 178°C (Pure).
Vapour pressure	: Novaluron: 1.6×10^{-5} Pascal at a temperature of 25°C (Pure).
Specific gravity (H₂O=1)	: 1.07.
Solubility in water	: Emulsifiable. Novaluron: 3 µg/l at a temperature of 25°C.
Octanol/water partition coefficient	: Novaluron: log Pow = 4.3.
Flash point	: 102°C (Closed cup).

10. STABILITY AND REACTIVITY

Stability	: Stable under normal conditions.
Conditions to avoid	: Protect from (sun)light, open flame and sources of heat.
Materials to avoid	: Avoid contact with: strong acids and strong bases.
Hazardous reactions	: Hazardous polymerization will not occur.
Hazardous decomposition products	: CO, CO ₂ , NO _x , Chlorides and Fluorides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity - Oral	: LD ₅₀ > 5000 mg/kg (rat).
Acute toxicity - Dermal	: LD ₅₀ > 2000 mg/kg (rat).
Acute toxicity - Inhalation	: NOVALURON TECHNICAL: LC ₅₀ > 5.15 mg/l, 4 hours (rat).
Skin irritation	: Slightly irritating (rabbit).
Eye irritation	: Irritating (rabbit).
Sensitization	: Guinea pig maximization test: sensitizer. However, the field-use dilution (0.1% in distilled water) does not cause skin sensitization.
Carcinogenicity	: Not carcinogenic.
Mutagenicity	: No evidence of genotoxicity
Reproduction toxicity	: Not teratogenic in animal experiments.

12. ECOLOGICAL INFORMATION

Persistence/degradability	: Novaluron: Half-life time (t _{1/2}): 68-76 days, soil.
Ecotoxicity	: Birds: LD ₅₀ > 2000 mg/kg. Fish: LC ₅₀ = 62.4 mg/l, 96 hours (rainbow trout). Daphnia magna: EC ₅₀ = 4.22 µg/l, 48 hours. Daphnia magna: NOEC = 1.25 µg/l, 48 hours. Algae: NOEC = 27.2 mg/l, 72 hours (growth rate). Algae: NOEC = 10.2 mg/l, 72 hours (biomass).

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13. DISPOSAL CONSIDERATIONS

Methods of disposal : Disposal according to the local legislation.

14. TRANSPORT INFORMATION

International transport regulations

UN number : 3082

Land - Road/Railway

Proper shipping name : Environmentally hazardous substance, liquid, N.O.S. (100 g/l Novaluron).

ADR/RID Class : 9

ADR/RID Item number : 11(c)

Packing group : III

Hazard Identification : 90

Number

Inland waterways

Sea

Proper shipping name : Environmentally hazardous substance, liquid, N.O.S. (100 g/l Novaluron).

IMDG Class : 9

Packing group : III

Air

Proper shipping name : Environmentally hazardous substance, liquid, N.O.S. (100 g/l Novaluron).

National transport regulations

No additional national transport regulations are known to the supplier

15. REGULATORY INFORMATION

Classification : This product is provisionally labelled by the supplier in accordance with the suppliers understanding of the EU regulations:

Hazard symbol(s) : Xi, N.



IRRITANT (Xi)



DANGEROUS FOR THE ENVIRONMENT (N)

Risk phrases : R36: Irritating to eyes.
R43: May cause sensitization by skin contact.
R50: Very toxic to aquatic organisms.

Safety phrases : S41: In case of fire and/or explosion do not breathe fumes.
S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

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Contains : 100 g/l Novaluron.
Approximately 450 g/l N-Methyl-2-pyrrolidone.

16. OTHER INFORMATION

Recommended use : Insecticide.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

HISTORY

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