# **RIMON 10 EC**

VersionRevision Date:MSDS Number:Country: CA1.601.12.2015400000004029Language: EN

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : RIMON 10 EC

Product code : 40000004029

Chemical nature : Insecticide

Manufacturer or supplier's details

Company: MacDermid Agricultural Solutions, Inc

245 Freight St Waterbury, CT

United States of America

06702

Telephone: +1 800 423 8569

Prepared by sds.request@arysta.com

Further information for the safety data sheet:

sds.request@arysta.com

1.4 Emergency telephone number

Emergency telephone number: 613-996-6666 (call collect) (CANUTEC)

For additional emergency telephone numbers see section 16 of the

Safety Data Sheet.

Recommended use : Insecticide

Restrictions on use : Agriculture, For professional users only.

Prepared by :

sds.request@arysta.com

## **SECTION 2. HAZARDS IDENTIFICATION**

## **Emergency Overview**

DANGER!	
Appearance	liquid
Colour	light yellow

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Odour	slight, characteristic
Hazard Summary	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

WHMIS Regulatory status

: This product is registered under the Pest Control Products Act and is therefore exempt from WHMIS supplier labeling and MSDS requirements. Please read entire MSDS and product label for safety precautions.

This product, material or substance is considered a WHMIS controlled product per Sections 33 - 66, Part IV of the CPR.

**Potential Health Effects** 

Inhalation : May cause irritation of respiratory tract.

Skin : Causes skin irritation.

Eyes : Causes serious eye irritation.

Ingestion : Harmful or fatal if swallowed.

Chronic Exposure : Reproductive effects

Blood

Aggravated Medical Condi-

tion

: None known.

Symptoms of Overexposure : irritant effects

Symptoms may be delayed.

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Substance name : Novaluron 9.3% EC

Chemical nature : Insecticide

#### **Hazardous components**

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Chemical Name	CAS-No.	Concentration (% w/w)
1-methyl-2-pyrrolidone	872-50-4	>= 30 - < 50
Novaluron	116714-46-6	>= 5 - < 10

#### **SECTION 4. FIRST AID MEASURES**

If inhaled : Remove to fresh air.

If not breathing, give artificial respiration.

Obtain medical attention.

: Wash off with warm water and soap. In case of skin contact

Remove contaminated clothing and shoes.

Wash clothing before reuse.

If symptoms persist, call a physician.

: In case of contact, immediately flush eyes with plenty of water In case of eye contact

> for at least 15 minutes. Obtain medical attention.

If swallowed : If victim is fully conscious, give a cupful of water.

Do not induce vomiting without medical advice.

Get medical attention immediately.

Do not give milk, alcoholic beverages or castor oil.

: The first aid procedure should be established in consultation Notes to physician

with the doctor responsible for industrial medicine.

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Extinguishing media - large fires

> Alcohol-resistant foam (on small fires)

Carbon dioxide (CO2)

Dry chemical Water spray

Unsuitable extinguishing media : Water spray jet

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circum-

stances and the surrounding environment.

Further information : Do not discharge extinguishing waters into streams, rivers and lakes.

firefighters

Special protective equipment for : Body covering protective clothing, full "turn-out" gear.

Self-contained breathing apparatus (EN 133)

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency pro: Wear suitable protective equipment.

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cedures

Environmental precautions : Prevent leaks and prevent soil / water pollution caused by leaks.

May be harmful to aquatic life.

Methods and materials for con-

tainment and cleaning up

: Absorb on inert material such as sand, earth, vermiculite.

Collect for disposal.

Dam up.

Large spills should be collected mechanically (remove by pumping)

for disposal.

Pump excess material into suitable container (metal drums, metal

tank, or such).

In accordance with local and national regulations.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Avoid contact with skin, eyes and clothing.

Use with adequate ventilation.

Conditions for safe storage : Keep in a dry place.

Keep away from direct sunlight. Keep in a cool place away from acids. Keep away from strong bases.

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Components with workplace control parameters

Components	CAS-No.	Value type	Control parameters	Basis
		(Form of ex-	/ Permissible con-	
		posure)	centration	
1-methyl-2-pyrrolidone	872-50-4	TWA	400 mg/m3	CA ON OEL

### Biological occupational exposure limits

-	_		1	1		1
Components	CAS-No.	Control	Biological	Sam-	Permissible	Basis
		parameters	specimen	pling	concentra-	
				time	tion	
1-methyl-2-pyrrolidone	872-50-4	5-Hydroxy-	Urine	End of	100 mg/l	ACGIH
		N-methyl-2-		shift (As		BEI
		pyrrolidone		soon as		
				possible		
				after		
				exposure		
				ceases)		

#### Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

equipment.

Hand protection

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Remarks : Impervious gloves

Eye protection : Safety glasses with side-shields

Skin and body protection : Lightweight protective clothing

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : light yellow

Odour : slight, characteristic

Odour Threshold : No data available

pH : 2.9, 1% Solution

Melting point/range : Not applicable

Boiling point/boiling range : No data available

Flash point :  $> 102 \, ^{\circ}\text{C}$ 

Evaporation rate : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 1.08 g/cm3

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

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Viscosity, kinematic : No data available

Self-Accelerating decomposition

temperature (SADT)

: Method: No information available.

### **SECTION 10. STABILITY AND REACTIVITY**

Possibility of hazardous reac-

tions

: Hazardous polymerisation does not occur.

Conditions to avoid : Exposure to sunlight.

Heat, flames and sparks.

Incompatible materials : Strong acids

Strong bases

Hazardous decomposition prod-

nets

: Burning produces noxious and toxic fumes.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure

Inhalation
Eye contact
Skin contact
Ingestion

### **Acute toxicity**

#### **Components:**

1-methyl-2-pyrrolidone:

Acute oral toxicity : LD50 Oral (Rat): 3,914 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 8,000 mg/kg

**Novaluron:** 

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.15 mg/l

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

#### Skin corrosion/irritation

### **Components:**

**1-methyl-2-pyrrolidone:** Result: Mild skin irritation

Novaluron:

Species: Rabbit

Result: No skin irritation

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#### Serious eye damage/eye irritation

### **Components:**

**1-methyl-2-pyrrolidone:** Result: Severe irritation

Novaluron: Species: Rabbit

Result: No eye irritation

### Respiratory or skin sensitisation

### **Components:**

**Novaluron:** 

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

#### Germ cell mutagenicity

### **Components:**

**Novaluron:** 

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Metabolic activation: with and without metabolic activation

Result: negative

: Test Type: Unscheduled DNA synthesis (UDS)

Metabolic activation: with and without metabolic activation

Result: negative

: Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Mouse Result: negative

Germ cell mutagenicity -

Assessment

: In vitro tests did not show mutagenic effects

### Carcinogenicity

### **Components:**

**Novaluron:** 

Carcinogenicity - Assess-

ment

: Not classifiable as a human carcinogen.

## Reproductive toxicity

### Components:

Novaluron:

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Reproductive toxicity - As-

sessment

: No toxicity to reproduction No effects on or via lactation

STOT - single exposure

**Product:** 

Remarks: No data available

STOT - repeated exposure

**Components:** 

**Novaluron:** 

Exposure routes: Oral Target Organs: Blood

Assessment: May cause damage to organs through prolonged or repeated exposure.

#### **SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

Components:

1-methyl-2-pyrrolidone:

Toxicity to fish : LC50 (Fish): > 100 mg/l

Exposure time: 96 h

**Novaluron:** 

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): > 0.002

mq/l

Exposure time: 96 h

Test Type: flow-through test

GLP: yes

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): > 9.68 mg/l

Toxicity to fish (Chronic toxic-

ity)

: NOEC (Oncorhynchus mykiss (rainbow trout)): 0.00616 mg/l

Exposure time: 28 d

Test Type: flow-through test

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

: NOEC (Daphnia magna (Water flea)): 0.00003 mg/l

Persistence and degradability

No data available

Bioaccumulative potential

**Components:** 

Novaluron:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)

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Bioconcentration factor (BCF): 14,431

Partition coefficient: n-

octanol/water

: log Pow: 4.3

Mobility in soil

No data available

Other adverse effects

No data available

### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

Waste from residues : In accordance with local and national regulations.

### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulation

**UNRTDG** 

No. UN : UN 3082

Nom d'expédition : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Novaluron)

Classe : 9 Groupe d'emballage : 111 : 9 Étiquettes

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S., Environmentally hazardous substance, liquid, n.o.s.

(Novaluron)

: 964

Class : 9 Ш Packing group

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction (passen-: 964

ger aircraft)

**IMDG-Code** 

**UN** number : UN 3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, Proper shipping name

N.O.S.

(Novaluron)

Class 9 : III Packing group Labels : 9

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EmS Code : F-A, S-F Marine pollutant : yes

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

Not applicable for product as supplied.

### **National Regulations**

**TDG** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Novaluron)

Class : 9
Packing group : III
Labels : 9
ERG Code : 171
Marine pollutant : no

Remarks : Not regulated by DOT and TDG if shipped or transported in

packaging less than 400KG by road and/or rail. Please refer

to 49 CFR for any details.

#### **SECTION 15. REGULATORY INFORMATION**

WHMIS Classification : This product is registered under the Pest Control Products Act and is

therefore exempt from WHMIS supplier labeling and MSDS requirements. Please read entire MSDS and product label for safety

precautions.

D2B: Toxic Material Causing Other Toxic Effects

NPRI Components : 1-methyl-2-pyrrolidone

1-methyl-2-pyrrolidone

#### **EPCRA - Emergency Planning and Community Right-to-Know Act**

SSARA 311/312 Hazards : Acute Health Hazard

Chronic Health Hazard

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

**Canadian lists** 

#### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; ECx

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- Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL -No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT -Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TDG - Transportation of Dangerous Goods; UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

The information provided in this 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.

CA / EN

#### Carechem24 International Worldwide Coverage

### **Emergency Phone Number**

Europe:	All European Countries	+44 (0) 1235 239 670 (NCEC)	
Asia Pacific:	East / South East Asia – Regional Number	+65 3158 1074	
	Australia	+61 2801 44558	
	New Zealand	+64 9929 1483	
	China	+86 532 8388 9090	
	China Taiwan	+86 10 5100 3039	

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