

# Material Safety Data Sheet

## RIMON® 0.83 EC

Version 1.15      Revision Date: 05/11/2015      MSDS Number: 400000004029      Country: US  
Language: EN

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : RIMON® 0.83 EC

Product code : 400000004029

#### Manufacturer or supplier's details

Company name of supplier : MacDermid Agricultural Solutions, Inc

Address : 245 Freight St  
Waterbury, CT United States of America 06702

Telephone : (800) 423-8569

#### Recommended use of the chemical and restrictions on use

Recommended use : Insecticide

Restrictions on use : Agriculture, For professional users only.

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### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

<b>DANGER!</b>	
Appearance	liquid
Colour	light yellow
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.

**OSHA Regulatory status** : This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

#### GHS Classification

Skin irritation : Category 2

Eye irritation : Category 2A

Reproductive toxicity : Category 1B

Specific target organ toxicity : Category 3 (Respiratory system)

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- single exposure

Specific target organ toxicity : Category 2 (Blood)  
- repeated exposure (Oral)

Acute aquatic toxicity : Category 1

Chronic aquatic toxicity : Category 1

### GHS Label element

Hazard pictograms : 

Signal word : Danger

Hazard statements : H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H360 May damage fertility or the unborn child.  
H373 May cause damage to organs (Blood) through prolonged or repeated exposure if swallowed.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear eye protection/ face protection.  
P280 Wear protective gloves.  
P281 Use personal protective equipment as required.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
P391 Collect spillage.  
**Storage:**

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P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

### 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 Condition : None known.

Symptoms of Overexposure : irritant effects

### 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.

#### OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

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

## SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.

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|-------------------------|---|
|                         | <p>If not breathing, give artificial respiration.<br/>If breathing is difficult, give oxygen.<br/>Call a POISON CENTER or doctor/ physician.</p>  |
| In case of skin contact | <p>: Remove contaminated clothing and shoes.<br/>Wash off immediately with plenty of water for at least 15 minutes.<br/>Call a POISON CENTER or doctor/ physician.</p>  |
| In case of eye contact  | <p>: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br/>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.<br/>Call a POISON CENTER or doctor/ physician.</p>                               |
| If swallowed            | <p>: Call a physician or poison control centre immediately.<br/>If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.<br/>Have person sip a glass of water if able to swallow.<br/>Never give anything by mouth to an unconscious person.</p> |
| Notes to physician      | <p>: The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.</p>   |
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### SECTION 5. FIREFIGHTING MEASURES

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|---|---|
| Suitable extinguishing media                  | <p>: Extinguishing media - large fires<br/>Alcohol-resistant foam<br/>(on small fires)<br/>Carbon dioxide (CO<sub>2</sub>)<br/>Dry chemical<br/>Water spray</p> |
| Unsuitable extinguishing media                | <p>: Water spray jet</p>  |
| Specific extinguishing methods                | <p>: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</p>  |
| Further information                           | <p>: Do not discharge extinguishing waters into streams, rivers and lakes.</p>  |
| Special protective equipment for firefighters | <p>: Body covering protective clothing, full "turn-out" gear.<br/>Self-contained breathing apparatus (EN 133)</p>   |
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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |  |
|---|--|
| Personal precautions, protective equipment and emergency procedures | <p>: Wear suitable protective equipment.</p>   |
| Environmental precautions   | <p>: Prevent leaks and prevent soil / water pollution caused by leaks.<br/>May be harmful to aquatic life.</p> |
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Methods and materials for containment 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, cool place.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1-methyl-2-pyrrolidone	872-50-4	TWA	10 ppm	US WEEL

#### Biological occupational exposure limits

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

#### Personal protective equipment

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

Hand protection

Remarks : Impervious gloves

Eye protection : Safety glasses with side-shields

Skin and body protection : Lightweight protective clothing

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### 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 °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
Viscosity, kinematic	: No data available
Self-Accelerating decomposition temperature (SADT)	: Method: No information available.

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### SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Exposure to sunlight. Heat, flames and sparks.
Incompatible materials	: Strong acids Strong bases
Hazardous decomposition products	: Nitrogen oxides (NOx) Carbon oxides Other hazardous decomposition products may be formed.

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### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: Inhalation Eye contact Skin contact Ingestion
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#### Acute toxicity

##### Product:

Acute oral toxicity	: Acute toxicity estimate: 4,723 mg/kg Method: Calculation method
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##### 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 - Assessment	: Not classifiable as a human carcinogen.
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### Reproductive toxicity

#### Components:



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### **Novaluron:**

Reproductive toxicity - Assessment : 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**

#### **Product:**

Further information

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 45.7 %

#### **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 mg/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 toxicity) : 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 (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.00003 mg/l

### **Persistence and degradability**

No data available

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### Bioaccumulative potential

#### Components:

##### **Novaluron:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
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**

#### **IATA-DGR**

UN/ID No. : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Novaluron)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964

#### **IMDG-Code**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Novaluron)  
Class : 9  
Packing group : III  
Labels : 9  
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.

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### National Regulations

#### 49 CFR

UN/ID/NA number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Novaluron)
Class	: 9
Packing group	: III
Labels	: CLASS 9
ERG Code	: 171
Marine pollutant	: yes(Novaluron)
Remarks	: Above applies only to containers over 119 gallons or 450 liters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters).

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### SECTION 15. REGULATORY INFORMATION

**OSHA Hazards** : Severe eye irritant, Irritant, Reproductive effects

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

##### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard  
Chronic Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

1-methyl-2-pyrrolidone	872-50-4	50 %
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**California Prop 65** WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

1-methyl-2-pyrrolidone	872-50-4
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### FIFRA Hazard Information:

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use.

The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

### WARNING

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

This pesticide is toxic to freshwater and estuarine/ marine invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

Do not contaminate water when disposing of equipment wash waters or rinsate. This product may contaminate water through drift of spray in wind. This product has a potential for runoff for several days to weeks after application. Poorly draining soil with shallow water tables is more prone to produce runoff. A level, well maintained vegetative (grass) buffer strip between areas to which this product is applied and the surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

In order to minimize the possibility of developmental effects on pollinator larvae, including honey bee brood, do not use Rimon 0.83EC Insecticide on blooming crops.

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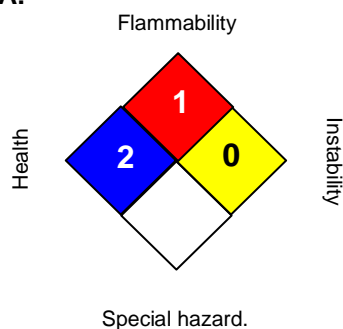
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### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA:



##### HMIS III:

HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

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.

US / EN

#### Carechem24 International Worldwide Coverage

##### Emergency Phone Number

<u>Europe:</u>	All European Countries	+44 (0) 1235 239 670 (NCEC)
<u>Asia Pacific:</u>	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
	Japan	+81 345 789 341
	Indonesia	00780 3011 0293
	Malaysia	+60 3 6207 4347

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	Korea	+65 3158 1285 +82 (0)234 798 401
	Vietnam	+65 3158 1255
	India	+65 3158 1198 +91 1166 411 405
	Pakistan	+65 3158 1329
	Philippines	+65 31581203
	Sri Lanka	+65 3158 1195
	Emergency Phone Number	+65 3158 1200
<u>Middle East / Africa:</u>	Arabic speaking countries	+44 (0) 1235 239 671
	South Africa	+27 21 300 2732
	All other countries	+44 (0) 1235 239 670
<u>America</u>	United States of America and Canada	+1866 928 0789 +1 215 207 0061
<u>Latin America:</u>	Brazil	+55 113 711 9144
	Mexico	+52 555 004 8763
	Chile	+56 225 829 336
	All other countries	+44 (0) 1235 239 670