Section 1. Product and Company Identification

Product name: RANCONA V RS
Product code: 000000003862
Chemical nature: Fungicide

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: Plant protection agent
Fungicide
Restrictions on use: Agriculture, For professional users only.

Section 2. Hazards Identification

Emergency Overview

<table>
<thead>
<tr>
<th>WARNING!</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid, suspension</td>
</tr>
<tr>
<td>Colour</td>
<td>blue</td>
</tr>
<tr>
<td>Odour</td>
<td>mild</td>
</tr>
</tbody>
</table>
| Hazard Summary | Suspected of causing cancer.
Suspected of damaging 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
Carcinogenicity: Category 2
Reproductive toxicity: Category 2
Specific target organ toxicity - repeated exposure (Oral): Category 2
Material Safety Data Sheet

RANCONA V RS

Acute aquatic toxicity : Category 2
Chronic aquatic toxicity : Category 1

**GHS Label element**

Hazard pictograms :

Signal word : Warning

Hazard statements :
- H351 Suspected of causing cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs 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.
- P273 Avoid release to the environment.
- P281 Use personal protective equipment as required.

**Response:**
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P391 Collect spillage.

**Storage:**
- P405 Store locked up.

**Disposal:**
- P501 Dispose of contents/ container to an approved waste disposal plant.

**Potential Health Effects**

**Inhalation** :
- May cause respiratory tract irritation.
- May cause lung effects.

**Skin** :
- May cause skin irritation.

**Eyes** :
- May cause slight irritation.

**Ingestion** :
- May be harmful if swallowed.

**Chronic Exposure** :
- Long term inhalation exposure may cause effects in the following:
  - May cause lung effects.
  - Cancer

**Aggravated Medical Condition** :
- None known.
Symptoms of Overexposure: No information available.

Carcinogenicity:
IARC Group 2B: Possibly carcinogenic to humans
- titanium dioxide 13463-67-7
- palygorskite 12174-11-7

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
Chemical nature: Fungicide

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>titanium dioxide</td>
<td>13463-67-7</td>
<td>&gt;= 20 - &lt; 30</td>
</tr>
<tr>
<td>propane-1,2-diol</td>
<td>57-55-6</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>carboxin</td>
<td>5234-68-4</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>aluminium hydroxide</td>
<td>21645-51-2</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>Cyclopentanol,2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H,1,2,4-triazol-1-ylmethyl)-</td>
<td>125225-28-7</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
<tr>
<td>palygorskite</td>
<td>12174-11-7</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

If inhaled: Remove to fresh air.
If symptoms persist, call a physician.

In case of skin contact: Remove contaminated clothing and shoes.
Wash off with warm water and soap.
If symptoms persist, call a physician.
Wash clothing before reuse.

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If symptoms persist, call a physician.
If swallowed : Do NOT induce vomiting. Rinse mouth with water. Obtain medical attention.

Notes to physician : The first aid procedure should be established in consultation 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 circumstances and the surrounding environment.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment for firefighters : 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 procedures : Wear suitable protective equipment. Avoid contact with skin and eyes.

Environmental precautions : Do not allow contact with soil, surface or ground water. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up : Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Shovel into suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Use plant protection products safely. Always read the label and product information before use. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.
Use with adequate ventilation.

Conditions for safe storage: Store in original container. Keep tightly closed in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>titanium dioxide</td>
<td>13463-67-7</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (total dust)</td>
<td>15 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td>propane-1,2-diol</td>
<td>57-55-6</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>aluminium hydroxide</td>
<td>21645-51-2</td>
<td>TWA (Respirable fraction)</td>
<td>1 mg/m³ (Aluminium)</td>
<td>US WEEL</td>
</tr>
</tbody>
</table>

Personal protective equipment:

Respiratory protection: Wear a NIOSH/MSHA approved organic cartridge respirator if misting or vapor occurs, or there is potential for airborne exposures to exceed established threshold values.

Hand protection

Remarks: Impervious gloves

Eye protection: Safety glasses with side-shields

Skin and body protection: Impervious clothing

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid, suspension

Colour: blue

Odour: mild

Odour Threshold: No data available

pH: 7 - 8

Melting point/range: No data available

Boiling point/boiling range: No data available

Flash point: > 100 °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: 1.29 (20 °C)

Solubility(ies)
   Water solubility: dispersible, partly miscible
   Solubility in other solvents: No data available
Partition coefficient: n-octanol/water: No data available
Auto-ignition temperature: not determined
Decomposition temperature: No data available

Viscosity
   Viscosity, dynamic: No data available
   Viscosity, kinematic: No data available

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions: Hazardous polymerisation does not occur.
Incompatible materials: Oxidizing agents
   Alkalis
   Acids
Hazardous decomposition products: Carbon oxides
   Nitrogen oxides (NOx)
   Sulphur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
   Skin contact
   Inhalation
   Eye contact
Material Safety Data Sheet

RANCONA V RS

Version 1.6  Revision Date: 05/27/2015  MSDS Number: 00000003862  Country: US  Language: EN

Acute toxicity

**Product:**

- **Acute oral toxicity:** LD50 (Rat, female): > 5,000 mg/kg
- **Acute inhalation toxicity:** LC50 (Rat): 2.56 mg/l
- **Acute dermal toxicity:** LD50 (Rat): > 5,000 mg/kg

**Components:**

**titanium dioxide:**

- **Acute oral toxicity:** LD50 (Rat): > 10,000 mg/kg
- **Acute inhalation toxicity:** LC50 (Rat): > 6.8 mg/l
  - Exposure time: 4 h
  - Test atmosphere: dust/mist
- **Acute dermal toxicity:** LD50 (Rabbit): > 10,000 mg/kg

**propane-1,2-diol:**

- **Acute oral toxicity:** LD50 (Rat): 20,000 mg/kg
- **Acute dermal toxicity:** LD50 (Rabbit): 18,500 mg/kg

**carboxin:**

- **Acute oral toxicity:** LD50 (Rat, male): 2,588 mg/kg
- **Acute inhalation toxicity:** LC50 (Rat, male and female): > 4.7 mg/l
  - Exposure time: 4 h
  - Assessment: The substance or mixture has no acute inhalation toxicity
  - Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
- **Acute dermal toxicity:** LD50 (Rabbit, male and female): > 4,000 mg/kg

**aluminium hydroxide:**

- **Acute oral toxicity:** (Rat): > 5,000 mg/kg
  - Method: OECD Test Guideline 401

**Cyclopentanol,2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-:**

- **Acute oral toxicity:** LD50 (Rat, male): 1,338 mg/kg
  - Method: OECD Test Guideline 401
  - GLP: yes
  - LD50 (Rat, female): 888 mg/kg
  - Method: OECD Test Guideline 401
  - GLP: yes
  - LD50 (Mouse, male): 537 mg/kg
Acute inhalation toxicity

: LC50 (Rat, male and female): > 1.88 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes

LC50 (Rat, male and female): > 3.53 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes

Acute dermal toxicity

: LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

Skin corrosion/irritation

Product:
Species: Rabbit
Result: Moderate skin irritation

Components:
titanium dioxide:
Species: Rabbit
Result: No skin irritation
carboxin:
Species: Rabbit
Result: No skin irritation
aluminium hydroxide:
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Cyclopentanol,2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-:
Species: Rabbit
Exposure time: 4 h
Result: No skin irritation
GLP: yes

Serious eye damage/eye irritation

Product:
Species: Rabbit
Result: slight irritation

**Components:**

titanium dioxide:
Species: Rabbit
Result: No eye irritation

carboxin:
Species: Rabbit
Result: slight irritation
Assessment: No eye irritation

aluminium hydroxide:
Species: Rabbit
Result: Moderate eye irritation

Cyclopentanol,2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-: 
Species: Rabbit
Result: No eye irritation

Respiratory or skin sensitisation

**Product:**
Test Type: Buehler Test
Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.

**Components:**
titanium dioxide:
Species: Guinea pig
Assessment: Did not cause sensitisation on laboratory animals.

carboxin:
Species: Guinea pig
Assessment: May cause sensitisation by skin contact.
Method: Magnusson-Kligmann-Test
Result: positive
GLP: yes

Cyclopentanol,2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-:
Species: Guinea pig
Method: Magnusson-Kligmann-Test
Result: Did not cause sensitisation on laboratory animals.
GLP: yes

Germ cell mutagenicity

**Components:**
titanium dioxide:
Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Result: negative

: Test Type: Unscheduled DNA synthesis (UDS)
Result: negative

: Test Type: in vitro assay
Metabolic activation: with and without metabolic activation
Result: negative

: Test Type: Chromosome aberration test in vitro
Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo
: Test Type: in vivo assay
Species: Rat (female)
Application Route: Oral
Result: negative

Germ cell mutagenicity - Assessment
 : Animal testing did not show any mutagenic effects.

carboxin:
Genotoxicity in vitro
: Test Type: Bacterial reverse mutation test
Species: Salmonella typhimurium
Result: negative

: Test Type: Chromosome aberration test in vitro
Species: Chinese hamster ovary cells
Result: Negative without activation, positive with activation

: Test Type: In Vitro mammalian Cell Gene Mutation Test
Species: Chinese hamster ovary cells
Result: negative

: Test Type: Unscheduled DNA synthesis (UDS)
Species: rat hepatocytes
Result: positive

Genotoxicity in vivo
: Test Type: Mammalian bone marrow chromosome aberration test
Species: Sprague-Dawley rat bone marrow cells
Result: negative

Test Type: Mammalian bone marrow chromosome aberration test
Species: Sprague-Dawley rat bone marrow cells
Result: negative

Test Type: Unscheduled DNA synthesis (UDS)
Species: Male Sprague-Dawley rat liver hepatocyte cells
Result: negative

Germ cell mutagenicity -
: negative
Assessment

**Cyclopentanol,2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-**

Genotoxicity in vitro
- Test Type: Ames test
  - Metabolic activation: with and without metabolic activation
  - Method: Mutagenicity (Escherichia coli - reverse mutation assay)
  - Result: negative
- Test Type: In Vitro mammalian Cell Gene Mutation Test
  - Metabolic activation: with and without metabolic activation
  - Result: negative
- Test Type: Chromosome aberration test in vitro
  - Metabolic activation: with and without metabolic activation
  - Result: negative

Genotoxicity in vivo
- Species: Mouse
- Cell type: Bone marrow
- Result: negative

Germ cell mutagenicity - Assessment
- In vitro tests did not show mutagenic effects

Carcinogenicity

**Components:**
- *titanium dioxide*:
  - Carcinogenicity - Assessment
    - Not classifiable as a human carcinogen.
    - Limited evidence of carcinogenicity in animal studies, Tumors were noticed after prolonged inhalation toxicity testing on rats., Considered carcinogenic to animals in certain countries.

- *carboxin*:
  - Species: Rat, (male)
  - Application Route: Oral
  - NOAEL: No observed adverse effect level: 0.82 mg/kg bw/day
  - Carcinogenicity - Assessment: negative

**Cyclopentanol,2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-**

Carcinogenicity - Assessment
- Animal testing did not show any carcinogenic effects.

Reproductive toxicity

**Components:**
- *carboxin*:
  - Effects on fertility
    - General Toxicity - Parent: No observed adverse effect level: 1
Effects on foetal development:
Species: Rat
General Toxicity Maternal: No observed adverse effect level: 10 mg/kg bw/day
Teratogenicity: No observed adverse effect level: 90 mg/kg bw/day
Species: Rabbit
General Toxicity Maternal: No observed adverse effect level: 75 mg/kg bw/day
Teratogenicity: No observed adverse effect level: 75 mg/kg bw/day

Reproductive toxicity - Assessment:
Species: Rat
No observed adverse effect level: 9-10 mg/kg bw/day
Species: Rabbit
No observed adverse effect level: 75 mg/kg bw/day

Cyclopentanol,2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-:
Effects on fertility:
Species: Rat
Dose: 0, 30, 100 or 300 ppm
General Toxicity F1: No observed adverse effect level: 9 - 10 mg/kg bw/day

STOT - single exposure

Remarks: No data available

STOT - repeated exposure

Components:
titanium dioxide:
Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Cyclopentanol,2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-:
Target Organs: Eyes
Assessment: May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:
carboxin:
Species: Rat, male
NOAEL: 30 mg/kg
Application Route: Dermal
Exposure time: 28 d
GLP: yes
Target Organs: Kidney
Species: Rat, male  
NOAEL: 5.5 mg/kg  
Application Route: Oral  
Exposure time: 90 d  
GLP: yes  
Target Organs: Kidney

**aluminium hydroxide:**  
Species: Rat  
Application Route: Oral  
Exposure time: 28 d

**Cyclopentanol,2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-:**  
Species: Rat, female  
NOAEL: 7 mg/kg  
LOAEL: 33.2 mg/kg  
Application Route: Oral  
Exposure time: 13 weeks  
Dose: 3.1, 7.0, 15.4 and 33.2 mg/kg  
GLP: yes  
Target Organs: Adrenal gland, thymus gland

Species: Rat, male  
NOAEL: 25.9 mg/kg  
LOAEL: 52.2 mg/kg  
Application Route: Oral  
Exposure time: 13 weeks  
Dose: 2.5, 5.8, 12.6, 25.9 and 52.2  
GLP: yes  
Target Organs: Adrenal gland, thymus gland

Species: Rat, male and female  
NOAEL: 10 mg/kg  
LOAEL: 40 mg/kg  
Application Route: Dermal  
Exposure time: 13 weeks  
Dose: 0, 2, 10 or 40 mg/kg bw/day  
GLP: yes

Species: Rat, male and female  
NOAEL: 30 mg/kg  
LOAEL: 100 mg/kg  
Application Route: Inhalation  
Exposure time: 28-day  
Dose: 0, 30, 100, 300 or 1000 mg/m3  
GLP: yes

**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: 4.9 %

Components:

**titanium dioxide:**
Toxicity to fish : LC0 (Leuciscus idus (Golden orfe)): 1,000 mg/l
Exposure time: 48 h
Test Type: static test

LC50 (Cyprinodon variegatus (sheepshead minnow)): 240 - 370 mg/l
Exposure time: 96 h

**carboxin:**
Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.3 mg/l
Exposure time: 96 h
Test Type: flow-through test
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 57 mg/l
Exposure time: 48 h
Test Type: flow-through test
GLP: yes

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.48 mg/l
Exposure time: 5 d
Test Type: static test

Toxicity to fish (Chronic toxicity) : NOEC (Cyprinus carpio (Carp)): 0.32 mg/l
Exposure time: 21 d
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.32 mg/l
Exposure time: 17 d
GLP: yes

**aluminium hydroxide:**
Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: Immobilization
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : NOEC (Algae): > 100 mg/l
End point: Inhibition of growth
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

**Cyclopentanol,2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-:**
Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.3 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates:
- EC50 (Daphnia magna (Water flea)): 1.7 mg/l
- Exposure time: 48 h
- GLP: yes

Toxicity to algae:
- EC50 (Pseudokirchneriella subcapitata (green algae)): 0.62 mg/l
- Exposure time: 72 h
- GLP: yes

M-Factor (Acute aquatic toxicity):
- 1

Toxicity to fish (Chronic toxicity):
- NOEC (Pimephales promelas (fathead minnow)): 0.00044 mg/l
- Exposure time: 28 d
- GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
- NOEC (Daphnia magna (Water flea)): 0.0109 mg/l
- Exposure time: 21 d
- GLP: yes

M-Factor (Chronic aquatic toxicity):
- 100

Persistence and degradability

Product:
- Biodegradability:
  - Biodegradation: 100%
  - Exposure time: 28 d
  - Remarks: Readily biodegradable

Components:
carboxin:
- Biodegradability: Result: Not readily biodegradable.

Bioaccumulative potential

Components:
carboxin:
- Partition coefficient: n-octanol/water: log Pow: 2.3

Cyclopentanol,2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-ylmethyl)-:
- Partition coefficient: n-octanol/water: log Pow: 4.21

Mobility in soil
- No data available
Other adverse effects

Components:
carboxin:
Results of PBT and vPvB assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

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. (carboxin, Ipconazole)
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. (carboxin, Ipconazole)
Class: 9
Packing group: III
Labels: 9
EmS Code: F-A, S-F
Marine pollutant: no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations

49 CFR
UN/ID/NA number: UN 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (carboxin, Ipconazole)
Class: 9
Material Safety Data Sheet

RANCONA V RS

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

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Irritant, Carcinogen

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

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydrogen chloride</td>
<td>7647-01-0</td>
<td>5000</td>
<td>*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydrogen chloride</td>
<td>7647-01-0</td>
<td>5000</td>
<td>*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

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:

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>carboxin</td>
<td>5234-68-4</td>
<td>6.93 %</td>
<td></td>
</tr>
</tbody>
</table>

California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

titanium dioxide 13463-67-7
palygorskite 12174-11-7
acetaldehyde 75-07-0
ethylene oxide 75-21-8
1,4-dioxane 123-91-1

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

ethylene oxide 75-21-8
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.

CAUTION

Harmful if inhaled. Avoid breathing dust or vapor. Avoid contact with skin or clothing.

Do not contaminate water when disposing of equipment washwater or rinsate. This product may have effects on federally listed threatened or endangered species or their critical habitat in some counties. It is a violation of federal law to kill, harm or harass listed animal species without authorization. To limit the potential for such impacts when using this product, consult and follow the instructions provided in the EPA endangered Species bulletin for the County or Parish in which you are applying the seed. To determine whether your County or Parish has a bulletin, consult http://www.epa.gov/espp before each season’s use of this product.

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SECTION 16. OTHER INFORMATION

Further information

NFPA:

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
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Special hazard.

HMIS III:

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<td>PHYSICAL HAZARD</td>
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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

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**Carechem24 International Worldwide Coverage**

**Emergency Phone Number**

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<td>East / South East Asia – Regional Number</td>
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