RANCONA V RS

Version Revision Date: MSDS Number: Country: US 1.8 10/23/2015 000000003862 Language: EN

SECTION 1. IDENTIFICATION

Product name : RANCONA V RS

Product code : 00000003862

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: Agriphar Crop Solutions: +1 800 423 8569(24 hours) 800-424-9300

For additional emergency telephone numbers see section 16 of the

Safety Data Sheet.

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

GHS Classification

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

Specific target organ toxicity

- repeated exposure (Oral)

: Category 2

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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 re-

peated 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 dis-

posal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Carboxin - 87.5 gm/L

Ipconazole - 9.38 gm/L

Hazardous components

Chemical Name	CAS-No.	Concentration (% w/w)
titanium dioxide	13463-67-7	>= 20 - < 30
propane-1,2-diol	57-55-6	>= 10 - < 20
Distillates (petroleum), solvent-dewaxed heavy	64742-65-0	>= 5 - < 10
paraffinic		

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carboxin	5234-68-4	>= 5 - < 10
CI Pigment Blue 15	Not Assigned	>= 1 - < 5
aluminium hydroxide	21645-51-2	>= 1 - < 5
Ipconazole	125225-28-7	>= 0.1 - < 1
palygorskite	12174-11-7	>= 0.1 - < 1

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.

Most important symptoms and

effects, both acute and delayed

: Symptoms may be delayed.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated

exposure.

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 circum-

stances and the surrounding environment.

Further information : Prevent fire extinguishing water from contaminating surface water

or the ground water system.

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

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firefighters Self-contained breathing apparatus (EN 133)

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective

equipment and emergency pro-

cedures

: 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 con-

tainment 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 prac-

tice.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
titanium dioxide	13463-67-7	TWA	10 mg/m3	ACGIH
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH
propane-1,2-diol	57-55-6	TWA	10 mg/m3	US WEEL
Distillates (petroleum), solvent- dewaxed heavy paraffinic	64742-65-0	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m3	ACGIH
		TWA	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL

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		ST (Mist)	10 mg/m3	NIOSH REL
		TWA (Mist)	5 mg/m3	OSHA P0
aluminium hydroxide	21645-51-2	TWA (Respir-	1 mg/m3	ACGIH
		able fraction)	(Aluminium)	

Hazardous components without workplace control parameters

Components	CAS-No.
carboxin	5234-68-4
CI Pigment Blue 15	Not Assigned
Ipconazole	125225-28-7
palygorskite	12174-11-7

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 : $> 100 \, ^{\circ}\text{C}$

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

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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 reac-

tions

: Hazardous polymerisation does not occur.

Incompatible materials : Oxidizing agents

Alkalis Acids

Hazardous decomposition prod-

ucts

Carbon oxides

Nitrogen oxides (NOx)

Sulphur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

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

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Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

propane-1,2-diol:

Acute oral toxicity : LD50 (Rat): 20,000 mg/kg

LD50 (Rabbit): 18,500 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 20,800 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 inhala-

tion 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

CI Pigment Blue 15:

Acute oral toxicity : LD50 (Rat): > 6,400 mg/kg

aluminium hydroxide:

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

Method: OECD Test Guideline 401

Ipconazole:

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 Method: OECD Test Guideline 401

GLP: yes

LD50 (Mouse, female): 468 mg/kg Method: OECD Test Guideline 401

GLP: yes

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

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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

CI Pigment Blue 15:

Species: Rabbit

Result: No skin irritation

aluminium hydroxide:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Ipconazole:

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:

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Species: Rabbit Result: slight irritation

Assessment: No eye irritation

CI Pigment Blue 15: Species: Rabbit

Result: No eye irritation

aluminium hydroxide:

Species: Rabbit Result: Moderate eye irritation

Ipconazole: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

CI Pigment Blue 15:

Test Type: Human patch test

Species: Human

Assessment: Did not cause sensitisation on laboratory animals.

Ipconazole:

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

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Country: US Language: EN

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 -Assessment : negative

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Country: US Language: EN

CI Pigment Blue 15:

Genotoxicity in vitro

: Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

: Test Type: in vitro assay

Metabolic activation: with and without metabolic activation

Result: negative

: Test Type: In Vitro mammalian Cell Gene Mutation Test Metabolic activation: with and without metabolic activation

Result: negative

: Test Type: Unscheduled DNA synthesis (UDS)

Result: negative

Germ cell mutagenicity -

Assessment

: In vitro tests did not show mutagenic effects

Ipconazole:

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 - Assess-

ment

: Not classifiable as a human carcinogen.

: Limited evidence of carcinogenicity in animal studies, Tumors were noticed after prolonged inhalation toxicity testing on rats., Consid-

ered carcinogenic to animals in certain countries.

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

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Carcinogenicity - Assess-

ment

: Weight of evidence does not support classification as a carcinogen

carboxin:

Species: Rat, (male) Application Route: Oral

NOAEL: No observed adverse effect level: 0.82 mg/kg bw/day

Carcinogenicity - Assess-

ment

: negative

CI Pigment Blue 15:

Carcinogenicity - Assess-

ment

: Animal testing did not show any carcinogenic effects.

Ipconazole:

Carcinogenicity - Assess-

ment

: Animal testing did not show any carcinogenic effects.

IARC Group 1: Carcinogenic to humans

Distillates (petroleum), sol- 64742-65-0

vent-dewaxed heavy paraf-

finic

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 carcino-

gen by OSHA.

NTP Known to be human carcinogen

Distillates (petroleum), sol- 64742-65-0

vent-dewaxed heavy paraf-

finic

Reproductive toxicity

Components:

carboxin:

Effects on fertility : General Toxicity - Parent: No observed adverse effect level: 1

mg/kg bw/day

General Toxicity F1: No observed adverse effect level F1: 20

mg/kg bw/day

Early Embryonic Development: No observed adverse effect

level F2: 10 mg/kg bw/day

Effects on foetal develop- : Species: Rat

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ment 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 - As-

sessment

: negative negative

CI Pigment Blue 15:

Reproductive toxicity - As-

sessment

: No toxicity to reproduction No effects on or via lactation

Ipconazole:

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

Product:

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.

CI Pigment Blue 15:

Exposure routes: Oral

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

Ipconazole:

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

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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

Ipconazole:

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

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

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/

Exposure time: 5 d Test Type: static test

Toxicity to fish (Chronic tox-

icity)

: NOEC (Cyprinus carpio (Carp)): 0.32 mg/l

Exposure time: 21 d

GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

: NOEC (Daphnia magna (Water flea)): 0.32 mg/l

Exposure time: 17 d

GLP: yes

CI Pigment Blue 15:

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 100 mg/l

Exposure time: 48 h Test Type: static test

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 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

End point: Inhibition of growth

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Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Ipconazole:

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/

Exposure time: 72 h

GLP: yes

M-Factor (Acute aquatic tox-

icity)

: 1

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): 0.00044

mg/

Exposure time: 28 d

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic 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.

CI Pigment Blue 15:

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 30 mg/l

Result: According to the results of tests of biodegradability this

product is not readily biodegradable.

Biodegradation: 0 % Exposure time: 14 d

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Bioaccumulative potential

Components:

carboxin:

Partition coefficient: n-

octanol/water

: log Pow: 2.3

CI Pigment Blue 15:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): < 0.33

Exposure time: 42 d Temperature: 25 °C Concentration: 0.6 mg/l

Partition coefficient: n-

octanol/water

: log Pow: 6.6 (25 °C)

Ipconazole:

Partition coefficient: n-

octanol/water

: log Pow: 4.28 - 4.49

Mobility in soil
No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Sec-

tion 602 (40 CFR 82, Subpt. A, App.A + B).

Components:

carboxin:

Results of PBT and vPvB

assessment

: This substance is not considered to be persistent, bioaccumu-

lating 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

UNRTDG

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UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(carboxin, lpconazole)

Class : 9
Packing group : III
Labels : 9

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(carboxin, lpconazole)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo : 964

aircraft)

Packing instruction (passen-

ger 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 : yes

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
Packing group : III

Labels : CLASS 9 ERG Code : 171

Marine pollutant : yes(carboxin, lpconazole)

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

packaging less than 450 liters by road and/or rail. Please

refer to 49 CFR for any details.

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SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Component RQ (lbs)
hydrogen chloride	7647-01-0	5000	*

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
hydrogen chloride	7647-01-0	5000	*

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SSARA 311/312 Hazards : Acute Health Hazard

Chronic Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting require-

ments of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

carboxin 5234-68-4 6.93 %

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

propane-1,2-diol 57-55-6 12.25 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

hydrogen chloride 7647-01-0 0.05 % acetaldehyde 75-07-0 0.00 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

hydrogen chloride 7647-01-0 0.05 % acetaldehyde 75-07-0 0.00 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

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California Prop. 65 WARNING! This product contains a chemical known to the

State of California to cause cancer.

titanium dioxide 13463-67-7 Distillates (petroleum), solvent-dewaxed 64742-65-0

heavy paraffinic

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

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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.

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.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response;

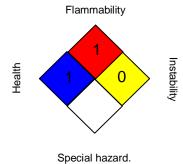
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EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation 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; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; 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; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; EHS - Extremely Hazardous Substance; HMIS - Hazardous Materials Identification System; MSHA - Mine Safety and Health Administration; NFPA - National Fire Protection Association; RCRA - Resource Conservation and Recovery Act; RQ - Reportable Quantity; SARA - Superfund Amendments and Reauthorization Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice; ERG - Emergency Response Guide; NTP - National Toxicology Program; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods

Further information

NFPA:



HMIS III:

HEALTH	1*
FLAMMABILITY	1
PHYSICAL HAZARD	0

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

Revision Date : 10/23/2015

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 quali-

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ty 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

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
	Japan	+81 345 789 341
	Indonesia	00780 3011 0293
	Malaysia	+60 3 6207 4347
	Thailand	001800 1 2066 6751
	Korea	+65 3158 1285 +82 (0)234 798 401
	Vietnam	+65 3158 1255
	India	+65 3158 1198 0800 100 7479
	Pakistan	+65 3158 1329
	Philippines	+65 31581203
	Sri Lanka	+65 3158 1195
	Emergency Phone Number	+65 3158 1200
Middle East / Africa:	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
Latin America:	Brazil	+55 11 3197 5891
	Mexico	+52 555 004 8763
	Chile	+56 225 829 336
	All other countries	+44 (0) 1235 239 670