

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : RANCONA TRIO
Other means of identification : PMRA # 32668

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Seed treatment
Restrictions on use : Agriculture, For professional users only

1.3. Details of the supplier of the safety data sheet

Arysta LifeScience Canada, Inc.
400 Michener Road, Unit 2
Guelph, Ontario N1K 1E4 - Canada
T 1-866-761-9397
sds@arysta.com

1.4. Emergency telephone number

Emergency number : FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL PROPHARMA: 1-866-303-6952
or +1-651-603-3432
FOR 24-HOUR CHEMICAL EMERGENCY (Spill, leaks, fire, exposure or accident) call
CHEMTREC: 1-800-424-9300 or +1-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS classification

Repr. 2 H361
STOT RE 2 H373
Aquatic Chronic 1 H410

Full text of H statements : see section 16

2.2. Label elements

GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Warning

Hazard statements (GHS) :

H361 - Suspected of damaging fertility or the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (GHS) :

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe mist, spray, vapours.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P314 - Get medical advice/attention if you feel unwell.
P391 - Collect spillage.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS)

0.11% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

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0.11% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
0.11% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% (w/w)	GHS classification
Carboxin	(CAS-No.) 5234-68-4	12.58	Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Comb. Dust
metalaxyl (ISO)	(CAS-No.) 57837-19-1	1.26	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Dispersing agent	(CAS-No.) trade secret	1.12 - 1.22	STOT RE 2, H373
Ipconazole	(CAS-No.) 125225-28-7	0.47	Acute Tox. 4 (Oral), H302 Repr. 2, H361 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Gently wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.
- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water.
- First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects : May cause damage to organs through prolonged or repeated exposure. Suspected of damaging fertility or the unborn child.
- Symptoms/effects after skin contact : Causes mild skin irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Large fires: alcohol resistant foam. Small fires: Carbon dioxide. Dry chemical. Water spray.
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Burning produces irritating, toxic and noxious fumes.
- Reactivity : No dangerous reactions known.

5.3. Advice for firefighters

- Firefighting instructions : Cool adjacent structures and containers with water spray to protect and prevent ignition.
- Protection during firefighting : Wear fire/flammable resistant/retardant clothing. Wear recommended personal protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid all eye and skin contact and do not breathe vapour and mist. Clean up any spills as soon as possible, using an absorbent material to collect it. Safety showers and eye wash stations should be located near areas with splash hazards.

6.1.1. For non-emergency personnel

- Protective equipment : Refer to section 8.2.

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Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Refer to section 8.2.

Emergency procedures : Ventilate area. Stop leak if safe to do so.

6.2. Environmental precautions

Do not discharge into drains or the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop the flow of material, if this is without risk.

Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container. Following recovery, flush area with water. Clean surface thoroughly to remove residual contamination.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Use personal protective equipment as required.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container. Keep container closed when not in use.

Incompatible products : Oxidizer. Strong acids. Strong bases.

Storage area : Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

RANCONA TRIO		
ACGIH	Not applicable	
OSHA	Not applicable	
metalaxyl (ISO) (57837-19-1)		
ACGIH	Not applicable	
OSHA	Not applicable	
Ipconazole (125225-28-7)		
ACGIH	Not applicable	
OSHA	Not applicable	
Dispersing agent (trade secret)		
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ (Inhalable particulates not otherwise specified); 3 mg/m3 (Respirable particulates not otherwise specified)
OSHA	Not applicable	
Carboxin (5234-68-4)		
ACGIH	Not applicable	
OSHA	Not applicable	

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8.2. Exposure controls

Appropriate engineering controls	: Avoid splashing. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear suitable gloves resistant to chemical penetration.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Impervious clothing. Foot protection. Rubber Apron.
Respiratory protection	: Where excessive vapour may result, wear approved mask. Approved organic vapour respirator.
Environmental exposure controls	: Prevent leakage or spillage. Prevent contaminated water run-off.
Other information	: Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: red
Odour	: mild
Odour threshold	: No data available
pH	: 7.5 - 9.5
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: No data available
Relative density	: 1.04 - 1.08 @ 20 °C
Relative vapour density at 20 °C	: No data available
Solubility	: Soluble in organic solvents. water dispersible.
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 80 - 150 cP @ 20 °C

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Extremely high or low temperatures. Direct sunlight.

10.5. Incompatible materials

Oxidizer. Strong acids. Strong bases.

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10.6. Hazardous decomposition products

Burning produces irritating, toxic and noxious fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Inhalation; Skin and eye contact

Acute toxicity : Not classified

RANCONA TRIO	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 5.1 mg/l/4h

metalaxyl (ISO) (57837-19-1)	
ATE US (oral)	500 mg/kg bodyweight

Ipconazole (125225-28-7)	
LD50 oral rat	888 mg/kg (female), 1,338 mg/kg (male)
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 3.53 mg/l/4h
ATE US (oral)	888 mg/kg bodyweight

Dispersing agent (trade secret)	
LD50 oral rat	> 12000 mg/kg

Carboxin (5234-68-4)	
LD50 oral rat	2588 mg/kg male
LD50 dermal rat	> 4000 mg/kg
LC50 inhalation rat (mg/l)	> 4.7 mg/l/4h
ATE US (oral)	2588 mg/kg bodyweight

Skin corrosion/irritation : Not classified
(Slightly irritant but not relevant for classification)

Serious eye damage/irritation : Not classified
(Not irritating to rabbits on ocular application)

Respiratory or skin sensitisation : Not classified.
(No sensitizing reaction was observed for guinea pigs)

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated exposure.

Ipconazole (125225-28-7)	
LOAEL (oral, rat, 90 days)	52.2 mg/kg bodyweight/day Adrenal gland, thymus gland
NOAEL (oral, rat, 90 days)	25.9 mg/kg bodyweight/day Adrenal gland, thymus gland

Carboxin (5234-68-4)	
NOAEL (oral, rat, 90 days)	5.5 mg/kg bodyweight/day
NOAEL (subacute, oral, animal/male, 28 days)	30 mg/kg bodyweight

Aspiration hazard : Not classified

Symptoms/effects after skin contact : Causes mild skin irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

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Ipconazole (125225-28-7)	
LC50 fish 1	1.3 mg/l 96 h <i>Lepomis macrochirus</i>
EC50 Daphnia 1	1.7 mg/l 48 h
NOEC chronic fish	0.00044 mg/l 28 d <i>Pimephales promelas</i>
NOEC chronic crustacea	0.0109 mg/l 21 d <i>Daphnia magna</i>

Dispersing agent (trade secret)	
LC50 fish 1	361 ppm 96h <i>Pimephales promelas</i>

Carboxin (5234-68-4)	
LC50 fish 1	2.3 mg/l 96 h
EC50 Daphnia 1	> 57 mg/l 48 h <i>Oncorhynchus mykiss</i>
EC50 other aquatic organisms 1	0.45 mg/l 120 h <i>Pseudokirchneriella subcapitata</i>
NOEC chronic crustacea	0.32 mg/l 17 d <i>Daphnia magna</i>

12.2. Persistence and degradability

RANCONA TRIO	
Persistence and degradability	May cause long-term adverse effects in the environment.

Dispersing agent (trade secret)	
Persistence and degradability	Biodegrades slowly.
Biochemical oxygen demand (BOD)	0.021 g O ₂ /g substance (5 day/day); 0.043 g O ₂ /g (30 day/days)

Carboxin (5234-68-4)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

RANCONA TRIO	
Bioaccumulative potential	Not established.

Ipconazole (125225-28-7)	
Log Pow	4.28 - 4.49

Carboxin (5234-68-4)	
Log Pow	2.3

12.4. Mobility in soil

RANCONA TRIO	
Ecology - soil	Not established.

12.5. Other adverse effects

Other information : No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Transportation of Dangerous Goods

For a Small Means of Containment (<= 400 Kg) Not Regulated

For a Large Means of Containment (> 400 Kg)

Transport document description	: UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (carboxin, Ipconazole), 9, III
UN-No. (TDG)	: UN3082
Proper Shipping Name (Transportation of Dangerous Goods)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
TDG Primary Hazard Classes	: 9 - Class 9 - Miscellaneous Products, Substances or Organisms
Packing group	: III - Minor Danger

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Additional information

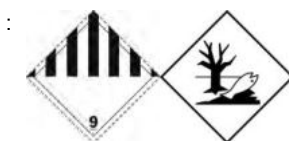
Emergency Response Guide (ERG) Number : 171

Other information : No supplementary information available.

Transport by sea

IMDG

Transport hazard class(es) (IMDG) : 9



Marine pollutant : Yes

UN-No. (IMDG) : 3082

Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (carboxin, Ipconazole), 9, III, MARINE POLLUTANT

Class (IMDG) : 9 - Miscellaneous dangerous substances and articles

Packing group (IMDG) : III - substances presenting low danger

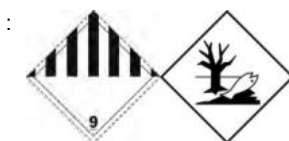
EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-F

Air transport

IATA

Transport hazard class(es) (IATA) : 9



Marine pollutant : Yes

UN-No. (IATA) : 3082

Transport document description (IATA) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (carboxin, Ipconazole), 9, III

Class (IATA) : 9 - Miscellaneous Dangerous Goods

Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

CANADA

metalaxyl (ISO) (57837-19-1)

Not listed on the Canadian DSL (Domestic Substances List) inventory.

Ipconazole (125225-28-7)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

Dispersing agent (trade secret)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Carboxin (5234-68-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Distillates (petroleum), solvent-dewaxed heavy paraffinic (DMSO < 3%) (64742-65-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

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SECTION 16: Other information

Data sources : ACGIH (American Conference of Government Industrial Hygienists). Canadian Centre for Occupational Health and Safety. Accessed at: http://www.ccohs.ca/oshanswers/legisl/whmis_classifi.html. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. WHMIS: The Workplace Hazardous Materials Information System: Canada's national hazard communication standard.

Other information : None.

Full text of H-statements:

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

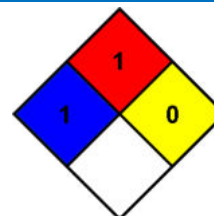
Abbreviations and acronyms:

	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	STEL: Short Term Exposure Limits
	TWA: Time Weighted Average

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and not reactive with water.



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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product