



Acropolis Fungicide

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
Trade Names	Acropolis Fungicide
CAS No.	Mixture
EPA Identification Number	EPA Reg. No. 35915-21

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

Identified Use(s)	Fungicide
Uses Advised Against	Do NOT aerosolize or atomize to produce inhalable-size particles. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Details of the supplier of the safety data sheet

Company Identification	Oxon Italia S.p.A. 2525 Meridian Parkway, Suite 350 Durham, NC 27713 United States of America
Telephone	(919) 226-1195

Emergency telephone number

Emergency Phone No.	CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)
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SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)	STOT RE 2; Carc. 2; Muta. 2; Skin Sens. 1
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Label elements

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 labeling information below applies to non-pesticide workplace labels. For pesticide label information, refer to Section 15.

Hazard Symbol(s)



Signal Word(s)

WARNING

Hazard Statement(s)

May cause damage to organs through prolonged or repeated exposure: Liver, Thyroid, Testes
Suspected of causing cancer.
Suspected of causing genetic defects.
May cause an allergic skin reaction.

Precautionary Statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe mist/spray.



Acropolis Fungicide

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash affected skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is labored, administer oxygen. If symptoms develop, obtain medical attention.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Treat symptomatically.

Other hazards

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Additional Information

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Tetraconazole	21.27	112281-77-3	Acute Tox. 4; H302, H332 Aquatic Chronic 2; H411
Thiophanate-methyl	4.2	23564-05-8	Skin Sens. 1; H317 Acute Tox. 4; H332 STOT RE 2; H373 Carc. 2; H351 Muta. 2; H341 Aquatic Acute 2; H401 Aquatic Chronic 1; H410

Additional Information – None.

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. If symptoms develop, obtain medical attention.
Skin Contact	Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Call a POISON CENTER or doctor/physician if you feel unwell. Treat symptomatically.

Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Get medical advice/attention if you feel unwell.



Acropolis Fungicide

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

- Suitable Extinguishing Media
- Unsuitable Extinguishing Media

Non-combustible. As appropriate for surrounding fire.
None known

Special hazards arising from the substance or mixture

Combustion or thermal decomposition will evolve toxic and irritant vapours. Decontaminate equipment or materials used in pesticide fires.

Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Do not get in eyes. Avoid contact with skin. Do not breathe mist/spray. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

Environmental precautions

Prevent substance entering sewers.

Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery. Collect spillage. Wash the spillage area with water. If possible prevent water running into sewers.

Reference to other sections Additional Information

None
None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Do **NOT** aerosolize or atomize to produce inhalable-size particles. Wear protective gloves/protective clothing/eye protection/face protection.

Conditions for safe storage, including any incompatibilities

-Storage temperature

Store in a well-ventilated place. Keep container tightly closed. Do not allow material to freeze. Store locked up.

-Incompatible materials

Strong oxidizing agents or reducing agents. Strong acids / bases.

Specific end use(s)

Fungicide

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
None	-----	-----	-----	-----	-----	-----

Exposure controls

Appropriate engineering controls

Do **NOT** aerosolize or atomize to produce inhalable-size particles. Use low-pressure coarse spray only.

Personal protection equipment



Acropolis Fungicide

Eye/face protection



Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)



Gloves (PVC, Neoprene, or Natural rubber).

Respiratory protection



Wear suitable respiratory protective equipment if exposure to high levels of material are likely. Observe directions on label and instructions for use.

Thermal hazards

Not normally required.

Environmental Exposure Controls

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Color.	Light slightly yellow
Odor	Strong unidentified odor
Odor Threshold (ppm)	Not available
pH (Value)	6.21 @ 25°C
Melting Point/Freezing Point (C)	Not available
Boiling point/boiling range (°C)	Not available
Flash Point (°C)	Not flammable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Explosive Limit Ranges	Not applicable
Vapour Pressure (Torr)	Not available
Vapour Density (Air=1)	Not available
Density (g/ml)	Not available
Specific Gravity	1.1031 @ 20 °C
Solubility (Water)	Not available
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	Not available
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt)	353.03 cSt @ 25°C
Explosive properties	Not explosive
Oxidizing properties	Not oxidising
Other information	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	None anticipated.
Conditions to avoid	Avoid contact with heat and ignition sources.
Incompatible materials	None known
Hazardous decomposition product(s)	None known



Acropolis Fungicide

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Skin Contact, Eye Contact

Information on toxicological effects

Tetraconazole (CAS# 112281-77-3):

Acute toxicity (calculated / estimated)

Oral LD50: 1031 - 1248 mg/kg-bw (rat)
Dermal LD50: >2000 mg/kg-bw (rabbit)
Inhalation LC50: > 3.66 mg/L (4 hr) (rat)

Irritation/Corrosivity

Unlikely to cause skin irritation. May cause eye irritation.

Sensitization

Not to be expected.

Repeated dose toxicity

Not to be expected. NOAEL (90 day) = 4.1 mg/kg (rat)

Carcinogenicity

Not to be expected.

NTP	IARC	ACGIH	OSHA
No	No	No	No

Mutagenicity

Not to be expected.

Reproductive toxicity

Not to be expected.

Thiophanate-methyl (CAS# 23564-05-8):

Acute toxicity (calculated / estimated)

Oral LD50: > 5000 mg/kg-bw (rat)
Dermal LD50: > 2000 mg/kg-bw (rabbit)
Inhalation LC50: > 1.7 mg/L (4 hr) (rat)

Irritation/Corrosivity

Unlikely to cause skin or eye irritation.

Sensitization

May cause an allergic skin reaction.

Repeated dose toxicity

May cause damage to organs through prolonged or repeated exposure: Liver, Thyroid, Testes. NOAEL (104 weeks) = 8.8 mg/kg (rat)

Carcinogenicity

Suspected of causing cancer. NOAEL (104 weeks) = 8 mg/kg (dog)

NTP	IARC	ACGIH	OSHA
No	No	No	No

Mutagenicity

Suspected of causing genetic defects. There is evidence of clastogenicity to mammalian cells in vitro.

Reproductive toxicity

Not to be expected. NOAEL (2 generation) = 8 mg/kg (rat)

SECTION 12: ECOLOGICAL INFORMATION

Tetraconazole (CAS# 112281-77-3):

Ecotoxicity

Short term

LC50 (96 hour): 4.8 mg/L(fish)
LC50 (48 hour): 3 mg/L (Aquatic invertebrates)

Long Term

Harmful to aquatic life with long lasting effects.

Persistence and degradability

Persistent

Bioaccumulative potential

The substance has low potential for bioaccumulation.

Mobility in soil

The product has low mobility in soil.

Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

Other adverse effects

None known.



Acropolis Fungicide

Thiophanate-methyl (CAS# 23564-05-8):

Ecotoxicity

Short term	LC50 (96 hour): 8.3 mg/l (Rainbow trout) LC50 (48 hour): 5.4 mg/l (Daphnia magna)
Long Term	NOAEC = 0.002 mg/l (Channel catfish) NOAEC = 0.003 mg/l (Daphnia magna) NOAEC = 0.025 mg/l (Mysid shrimp)

Persistence and degradability

Not Persistent

Bioaccumulative potential

No data

Mobility in soil

The product has low mobility in soil.

Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

Additional Information

None known.

SECTION 14: TRANSPORT INFORMATION

	Land transport <u>(U.S. DOT) *</u>	Sea transport <u>(IMDG)</u>	Air transport <u>(ICAO/IATA)</u>
UN number	UN 3082	UN 3082	UN 3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Tetraconazole & Thiophanate-methyl)		
Transport hazard class(es)	9	9	9
Packing group	III	III	III
Hazard label(s)	Marine Pollutant	Marine Pollutant	Marine Pollutant
Environmental hazards	Yes	Yes	Yes
Special precautions for user	None Assigned	None Assigned	None Assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

* Not regulated for ground shipments in the U.S. in non-bulk packaging (<119 gallons).

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or exempt.

EPA FIFRA Information for SDS Section 15 (Regulatory 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.



Acropolis Fungicide

The hazard information required on the pesticide label is reproduced below:

PRECAUTIONARY STATEMENTS - HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if inhaled. Avoid breathing spray mist. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, and viton ≥14 mils.

Applicators and other handlers must wear:

- Long sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves for all mixes and loaders and for applicators using hand held equipment and chemical resistant aprons for mixers, loaders, and other handlers exposed to the concentrate.

USER SAFETY RECOMMENDATIONS

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS

When handlers use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS - Users should:

- Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product may be toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff from treated areas may be hazardous to aquatic organisms adjacent to treatment areas. Exercise care when making applications of this product, and do not apply when atmospheric conditions favor drift or runoff. Do not contaminate water when disposing of equipment washwater or rinsate.

In order to mitigate concern for reproductive effects to endangered bird and mammal species which may occur incidentally in sugarbeet growing areas, you are required to ascertain through the state Department of Agriculture, or Cooperative Extension Service, whether the treatment area may contain habitat of federally listed bird and mammal species; if so, treatment must be avoided in these areas.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	-----	-----	-----

SARA 311/312 - Hazard Categories:

- Fire
 Sudden Release
 Reactivity
 Immediate (acute)
 Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	-----	-----



Acropolis Fungicide

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)	TPQ (Pounds)
None	-----	-----	-----	-----

Proposition 65 (California):

Chemical Name	CAS No.	Typical %wt.	Hazards
None	-----	-----	-----

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16.

Date of preparation: February 14, 2017

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

- H302: Harmful if swallowed.
- H317: May cause an allergic skin reaction.
- H332: Harmful if inhaled.
- H341: Suspected of causing genetic defects.
- H351: Suspected of causing cancer.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H401: Toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.
- H411: Toxic to aquatic life with long lasting effects.

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