

Adrenalyn ETQ Turf Fungicide SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name Mixture

Trade Names Adrenalyn ETQ Turf Fungicide

CAS No. Mixture

EPA Identification Number EPA Reg. No. 60063-62

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

Identified Use(s) Fungicide

Uses Advised Against 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 Sipcam Agro USA, Inc. 2525 Meridian Parkway

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)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) Acute Tox. 4; Repr. 2

Label elements

This is a pesticide product registered with 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)

Hazard Statement(s)

Harmful if swallowed or if inhaled.

Suspected of damaging the unborn child.

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Precautionary Statement(s)

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing mist/vapours/spray.

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

Use only outdoors or in a well-ventilated area.

Wash hands and exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is laboured, administer oxygen. Call a POISON CENTER/doctor if you feel unwell. Treat symptomatically.

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: Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention. Treat symptomatically. Contaminated clothing should be laundered before reuse.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Do not give anything by mouth to an unconscious person. Treat symptomatically.

IF exposed or concerned: Get medical advice/attention. Treat symptomatically.

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

Store locked up.

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice. Observe directions on label and instructions for use. See Also Section 15.

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Contains: Azoxystrobin. May produce an allergic reaction in persons already

sensitised.

Additional Information None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Tebuconazole	~ 27	107534-96-3	Acute Tox. 4; H302 Repr. 2; H361 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Azoxystrobin	~ 18	131860-33-8	Acute Tox. 3; H331 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Additional Information - None

SECTION 4: FIRST AID MEASURES



Other hazards

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Description of first aid measures

Inhalation Remove person to fresh air and keep comfortable for breathing. If breathing

is laboured, administer oxygen. Call a POISON CENTER/doctor if you feel

unwell. Treat symptomatically.

Skin Contact Take off immediately all contaminated clothing. Gently wash with plenty of

soap and water. If irritation (redness, rash, blistering) develops, get medical attention. Treat symptomatically. Contaminated clothing should be laundered

before reuse.

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/doctor if you feel unwell. Rinse mouth. Do not give

anything by mouth to an unconscious person. Treat symptomatically.

Most important symptoms and effects, both

acute and delayed

Harmful if swallowed or if inhaled. Contains: Azoxystrobin. May produce an

allergic reaction in persons already sensitised.

Indication of any immediate medical attention

and special treatment needed

Call a POISON CENTER or doctor/physician if you feel unwell.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media Extinguish with carbon dioxide, dry chemical, foam or water spray.

-Unsuitable Extinguishing Media None know

Special hazards arising from the substance or mixture Combustion or thermal decomposition will evolve toxic and irritant

vapours. Forms oxides of carbon and nitrogen, also chlorine and chlorinated compounds. 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

Do not get in eyes, on skin, or on clothing. Wear protective

emergency procedures

gloves/protective clothing/eye protection/face protection. Do not breathe mist/vapours/spray. Wear suitable respiratory protective equipment if exposure to high levels of material are likely.

Environmental precautions Observe directions on label and instructions for use. See Also

Section 15.

Methods and material for containment and cleaning up

Observe directions on label and instructions for use. See Also

Section 15.

Reference to other sectionsObserve directions on label and instructions for use. See Also

Section 15.

Additional Information None

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SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid breathing mist/vapours/spray. Wear protective gloves/protective clothing/eye

protection/face protection. Use only outdoors or in a well-ventilated area. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Observe directions on label and instructions for use. See Also Section 15.

Conditions for safe storage, including any incompatibilities

-Storage temperature Store at room temperature. Do not allow material to freeze. -Incompatible materials Strong oxidising agents. Substances that react with water.

Specific end use(s) Fungicide

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

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

Exposure controls

Appropriate engineering controls Do NOT aerosolize or atomize to produce inhalable-size particles.

Use low-pressure course spray only. Observe directions on label and

instructions for use. See Also Section 15.

Personal protection equipment

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



Skin protection (Hand protection/ Other)

Gloves. Observe directions on label and instructions for use. See Also Section 15.



Respiratory protection Observe directions on label and instructions for use. See Also Section



Thermal hazards Not normally required.

Environmental Exposure ControlsDo not allow to enter drains, sewers or watercourses. Observe directions on label and instructions for use. See Also Section 15.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Liquid

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Colour. Neutrals (White) Odour Characteristic Not available Odour Threshold (ppm)

7 63

pH (Value) Melting Point (°C) / Freezing Point (°C) Not available Not available. Boiling point/boiling range (°C): Flash Point (°C) >130 0°C Not available. Evaporation rate Flammability (solid, gas) Not available. Not available. **Explosive Limit Ranges** Vapour pressure (Pascal) Not available. Vapour Density (Air=1) Not available. Density (g/ml) 1.1230 g/mL Solubility (Water) Not available. Solubility (Other) Not available. Partition Coefficient (n-Octanol/water) Not available. Not available.

Auto Ignition Point (°C) Decomposition Temperature (°C) Not available.

Kinematic Viscosity (cSt) Not available. Explosive properties Not explosive. Oxidising properties Not oxidising. Other information Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity No hazardous reactions known if used for its intended purpose.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None anticipated. Conditions to avoid Incompatible materials

Incompatible materials Strong oxidising agents. Substances that react with water.

Hazardous decomposition product(s) Combustion or thermal decomposition will evolve toxic and irritant

vapours. Forms oxides of carbon and nitrogen, also chlorine and chlorinated compounds. Decontaminate equipment or materials used in

pesticide fires.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Substances Not applicable

Mixtures

Oral: LD50 500 mg/kg-bw (ATE) (rat) Acute toxicity

Dermal: LD50 >4000 mg/kg-bw (rat) Inhalation: LC50 >0.919 mg/L (rat)

Skin corrosion/irritation Unlikely to cause skin irritation. Serious eye damage/irritation Unlikely to cause eye irritation.

Respiratory or skin sensitization It is not a skin sensitiser in animal tests.

Not available. Germ cell mutagenicity Carcinogenicity Not available. Reproductive toxicity Not available. STOT - single exposure Not available. STOT - repeated exposure Not available.

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Not available Aspiration hazard

Substances in preparations / mixtures

Azoxystrobin (CAS # 131860-33-8):

Oral: LD50 >5000 mg/kg (rat) Acute toxicity

Dermal: LD50 >2000 mg/kg (rat)

Inhalation: LC50 = 0.698 - 0.962 mg/L (rat) (4 hr)

Irritation/Corrosivity Causes serious eye irritation.

Sensitization Not to be expected. Repeated dose toxicity Not to be expected.

NOEL: 20.4 mg/kg/day (90 day oral, rat)

Carcinogenicity Not to be expected.

NOEL: 18.2 mg/kg/day

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Mutagenicity Evidence of genotoxicity. Not to be expected. Reproductive toxicity

Tebuconazole (CAS # 107534-96-3):

Oral: LD50 >5000 mg/kg (rat) Acute toxicity

Dermal: LD50 >2000 mg/kg (rat)

Inhalation: LC50 > 0.5 and < 5.0 mg/L (rat) (Dust and Mist)

Irritation/Corrosivity Not to be expected Sensitization Not to be expected. Repeated dose toxicity Not to be expected. Carcinogenicity Not to be expected.

NTP	IARC	ACGIH	OSHA
No	No	No	No

No evidence of genotoxicity. Mutagenicity

Reproductive toxicity Suspected of damaging the unborn child.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Azoxystrobin (CAS # 131860-33-8):

Short term EC50 (96 hour): 0.47 mg/L (Oncorhynchus mykiss)

EC50 (48 hour): 0.259 mg/L (Daphnia magna)

Long Term NOEC: 0.084 mg/L (Daphnia magna)

Tebuconazole (CAS# 107534-96-3):

Short term LC50 (96 hour): 5.9 mg/L (Danio rerio)

EC50 (48 hour): 0.750 - 4.0 mg/L (Daphnia magna)

EC50 (72 hour): 3.2 mg/L (Pseudokirchneriella subcapitata)

Long Term NOEC (14 days): 0.230 mg/L (Danio rerio)

NOEC (21 days): 0.120 mg/L (Daphnia magna)

NOEC (5 days): 1.2 mg/L (Pseudokirchneriella subcapitata)

Persistence and degradability

Part of the components are poorly biodegradable.

Bioaccumulative potential

Not determined.

Mobility in soil Not determined.

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Results of PBT and vPvB assessment Not classified as PBT.

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. Observe directions on label and instructions for use. See Also

Section 15.

Additional Information None known.

SECTION 14: TRANSPORT INFORMATION

	Land transport (<u>U.S. DOT)</u> *	Sea transport <u>(IMDG)</u>	Air transport (ICAO/IATA)		
UN number	Not classified as dangerous	UN 3082	UN 3082		
Proper Shipping Name	for transport. *	Environmentally hazardous substance, liquid, n.o.s. (Azoxystrobin &			
		I ebuco	onazole)		
Transport hazard class(es)		9	9		
Packing group		III	III		
Hazard label(s)		Marine Pollutant	Marine Pollutant		
Environmental hazards		Yes	Yes		
Special precautions for user		None Assigned	None Assigned		

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

SECTION 15: REGULATORY INFORMATION

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

TSCA (Toxic Substance Control Act) - Inventory Status: This is a registered pesticide product regulated under Federal Insecticide, Fungicide, and Rodenticide Act and, therefore, the components of this product are not subject to listing on the TSCA inventory.

EPA FIFRA Information for SDS Section 15 (Regulatory Information):

This is a pesticide product registered with 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 hazard information required on the pesticide label is reproduced below:

WARNING: May be fatal if swallowed. Harmful if absorbed through skin or if inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Human flagging is prohibited.

Personal Protective Equipment (PPE):

All handlers must wear:

- Long-sleeved shirt and long pants
- Water-proof gloves
- Shoes plus socks
- In addition, mixers/loaders/applicators using mechanically pressurized handwands, except when applying to nursery ornamentals and landscaping, must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters.

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^{*} For bulk shipments in U.S., can be shipped as UN3082, Environmentally hazardous substance, liquid, n.o.s. (Azoxystrobin & Tebuconazole), 9, PG III



Respirator fit testing, medical qualification, and training

Using a program that conforms to OSHA's requirements (see 29 CFR Part), employers must verify that any handler who uses a respirator is:

- Fit-tested and fit-checked,
- Trained, and
- Examined by a qualified medical practitioner to ensure physical ability to safely wear the style of respirator to be worn. A qualified medical practitioner is a physician or other licensed health care professional who will evaluate the ability of a worker to wear a respirator. The initial evaluation consists of a questionnaire that asks about medical conditions (such as a heart condition) that would be problematic for respirator use. if concerns are identified, then additional evaluations, such as a physical exam, might be necessary. The initial evaluation must be done before respirator use begins. Handlers must be reexamined by a qualified medical practitioner if their health status or respirator style or use- conditions change.

Upon request by local / state / federal / tribal enforcement personnel, employers must provide documentation demonstrating how they have complied with these requirements.

Follow 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. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Engineering Controls:

When handlers use closed systems, enclosed cabs, or aircraft 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 requirement may be reduced or modified as specified in the WPS

Environmental Hazards:

This pesticide is toxic to mammals, 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 highwater mark. Runoff may be hazardous to aquatic organisms in neighboring areas. DO NOT contaminate water when disposing of equipment washwater or rinsate.

Ground Water Advisory

Azoxystrobin can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to ground water under certain conditions as a result of agricultural use. Tebuconazole is known to leach through soil into ground water under certain conditions as a result of label use. Use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Surface Water Advisory

This product may contaminate water through drift of spray in wind. This product has high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential contamination of water from rainfall runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted within 48 hours.

Notify state and/or Federal authorities and Sipcam Agro USA, Inc. immediately if you observe any adverse environmental effects due to use of this product.

The pesticide label also includes other important information, including directions for use. **Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4)**:

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

SARA 311/312 - Hazard Categories: See SECTION 2 - HAZARDS IDENTIFICATION

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None		

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

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

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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: November 30, 2021

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

Hazard Statement(s)

- H302: Harmful if swallowed.

- H319: Causes serious eye irritation.

- H331: Toxic if inhaled.

- H361d Suspected of damaging the unborn child.

- H400: Very toxic to aquatic life.

- H410: Very toxic to aquatic life with long lasting effects.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Sipcam Agro USA, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Sipcam Agro USA, Inc. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

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