

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name Mixture

Trade Names Andiamo® 230 Fungicide

CAS No. Mixture

EPA Identification Number EPA Reg. No. 60063-81

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) Not classified according to OSHA 29 CFR 1910.1200 criteria. Observe directions

on label and instructions for use. See Also Section 15.

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)

None

None

Precautionary Statement(s)

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

Other hazards Harmful to aquatic life.

Additional Information None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Tetraconazole	~ 20.5	112281-77-3	Acute Tox. 4; H302 Acute Tox. 4; H332 Aquatic Acute 2; H401 Aquatic Chronic 2; H411

Additional Information - None

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SECTION 4: FIRST AID MEASURES



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 Do not give anything by mouth to an unconscious person.Get medical

advice/attention if you feel unwell. Rinse mouth.

Most important symptoms and effects, both

acute and delayed

None

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 known.

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 and fluorine and fluorinated 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

emergency procedures

Observe directions on label and instructions for use. See Also

Section 15.

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 sections

Environmental precautions

Observe directions on label and instructions for use. See Also

Section 15.

Additional Information None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

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

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USA, INC.

Conditions for safe storage, including any incompatibilities

Store at room temperature. Do not allow material to freeze. -Storage temperature

-Incompatible materials Strong oxidising agents.

Specific end use(s) Fungicide

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

		(8hr TWA)		(STEL)		
		PEL	TLV	PEL	TLV	
SUBSTANCE.	CAS No.	(OSHA)	(ACGIH)	(OSHA)	(ACGIH)	Note:
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

15.

Thermal hazards Not normally required.

Environmental Exposure Controls Do 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 Colour. Light Yellow Odour Vegetable oil Odour Threshold (ppm) Not available. pH (Value) 5.35 (1% solution)

Melting Point (°C) / Freezing Point (°C) Not available. Boiling point/boiling range (°C): Not available.

Non-flammable / Non-combustible Flash Point (°C)

Evaporation rate Not available. Flammability (solid, gas) Not available.

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Explosive Limit Ranges Not available. Vapour pressure (Pascal) Not available. Vapour Density (Air=1) Not available. Density (g/ml) 1.1187 Solubility (Water) Not available. Solubility (Other) Not available.

Partition Coefficient (n-Octanol/water) Not available.

Auto Ignition Point (°C) Not available. Not available. Decomposition Temperature (°C) Kinematic Viscosity (cSt) 201.92 @ 40 °C

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.

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 and fluorine and fluorinated 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 = 3129 mg/kg-bw (rat) Acute toxicity

Dermal: LD50 >5050 mg/kg-bw (rat) Inhalation: LC50 >2.05 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.

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

Substances in preparations / mixtures

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.

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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.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Tetraconazole (CAS# 112281-77-3):

Short term LC50 (96 hour): 4.3 - 4.8 mg/L(fish)

EC50 (48 hour): 3 mg/L (Daphnia magna)

EC50 (72 hour): 0.41 mg/l (scenedesmus subspicatus)

Long Term Toxic to aquatic life with long lasting effects.

Persistence and degradability Part of the components are poorly biodegradable.

Bioaccumulative potential Not determined.

Mobility in soil Not determined.

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 Sea transport Air transport (U.S. DOT) (IMDG) (ICAO/IATA)

Not classified as dangerous for transport.

UN number

Proper Shipping Name

Transport hazard class(es)

Packing group

Hazard label(s)

Environmental hazards

Special precautions for user

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.

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SIPCAM AGRO

Andiamo[®] 230 Fungicide

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:

Caution. Harmful if swallowed. 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.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear:

- Long sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mills, polyvinyl chloride (PVC) ≥14 mils, or viton ≥14 mills.

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.

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 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 caution 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.

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				

Proposition 65 (California):

Chemical Name	CAS No.	Typical %wt.	Hazards
None			

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SECTION 16: OTHER INFORMATION

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

Date of preparation: December 21, 2021

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

Hazard Statement(s)

- H302: Harmful if swallowed.
- H332: Harmful if inhaled.
- H401: Toxic to aquatic life.
- H411: 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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