

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name Mixture

Trade Names Andiamo Advance

CAS No. Mixture

EPA Identification Number EPA Reg. No. 60063-79

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. 2; Eye Irrit. 2; Carc. 2; STOT SE 3

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) Fatal if inhaled (Aerosol).

Causes serious eye irritation.
Suspected of causing cancer.

May cause respiratory irritation (Aerosol).

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Precautionary Statement(s)

Obtain special instructions before use.

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

Do not breathe mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

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

Wear respiratory protection.

Wash hands and exposed skin thoroughly after handling.

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. If breathing is laboured, administer oxygen. 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 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: Chlorothalonil. May produce an allergic reaction in persons already

sensitised.

Other hazards

Additional Information

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Chlorothalonil	~ 28	1897-45-6	Acute Tox. 2; H330 Eye Dam. 1; H318 Skin Sens. 1B; H317 Carc. 2; H351 STOT-SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Tetraconazole	~ 2	112281-77-3	Acute Tox. 4; H302 Acute Tox. 4; H332 Aquatic Acute 2; H401 Aquatic Chronic 2; H411
Proprietary emulsifier	1 - 2	Trade Secret	Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Proprietary dispersing agent	1 - 2	Trade Secret	Skin Irrit. 2; H315 Eye Irrit. 2; H319

Additional Information - The exact composition is being withheld as Trade Secret in accordance with OSHA 29 CFR 1910.1200.

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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. Immediately

call a POISON CENTER/doctor. If breathing is laboured, administer oxygen.

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

Fatal if inhaled. Contains: Chlorothalonil. 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 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. 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, on skin, or on clothing. Wear protective 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 precautionsObserve 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 Observe 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

Do not breathe mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear

protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection. Wash hands and exposed skin thoroughly after handling. 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

		(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.

(i)

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 Colour. Milky White

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Odour Mild Bitter
Odour Threshold (ppm) Not available.

pH (Value) 5.91

Melting Point (°C) / Freezing Point (°C) Not available. Not available. Boiling point/boiling range (°C): Flash Point (°C) Not available. Evaporation rate Not available. Flammability (solid, gas) Not available. Not available. **Explosive Limit Ranges** Vapour pressure (Pascal) Not available. Vapour Density (Air=1) Not available. Density (g/ml) 1.179-1.300 g/mL Solubility (Water) Not available.

Solubility (Other)

Partition Coefficient (n-Octanol/water)

Not available.

Not available.

Auto Ignition Point (°C)

Decomposition Temperature (°C)

Kinematic Viscosity (cSt)

Explosive properties

Oxidising properties

Not available.

Not explosive.

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. Alkalis. Acids. 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

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

Dermal: LD50 >5050 mg/kg-bw (rat) Inhalation: LC50 0.31 mg/L (rat)

Skin corrosion/irritation Unlikely to cause skin irritation.

Serious eye damage/irritation Causes eye irritation.

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure

STOT - repeated exposure

Not available.

Not available.

Not available.

Not available.

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Aspiration hazard Not available.

Substances in preparations / mixtures

Chlorothalonil (CAS#1897-45-6):

Acute toxicity (calculated / estimated)

Oral: LD50 ~3260 mg/kg-bw (rat)

Dermal: LD50 ~2020 mg/kg-bw (rat)

Inhalation: LC50 0.1 mg/L (4 hr) (rat) (Inhalable Dust) - May cause

respiratory irritation

Irritation/Corrosivity Causes serious eye damage.

Sensitization Based on reliable animal studies, the substance is not a skin sensitizer

except possibly in the presence of a carrier solvent such as acetone. The substance may be a weak skin sensitizer based on a relatively small number of physician's clinical reports from exposed workers and, therefore, the potential for skin sensitization cannot be completely ruled

out.

Repeated dose toxicity

Not to be expected.

Carcinogenicity Suspected of causing cancer.

NTP	IARC	ACGIH	OSHA
Animal carcinogen	2B	No.	No.

Mutagenicity Not to be expected. Reproductive toxicity Not to be expected.

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.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chlorothalonil (CAS# 1897-45-6):

Short term LC50 (96 hour): 0.012 mg/L(fish)

EC50 (48 hour): 0.0342 - 0.143 mg/L (crustacea)

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

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.

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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 (U.S. DOT) *	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. (Chlorothalonil & Tetraconazole)			
Transport hazard class(es) Packing group Hazard label(s) Environmental hazards Special precautions for user		9 III Marine Pollutant Yes None Assigned	9 III Marine Pollutant Yes 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 inhaled. Causes moderate eye irritation. Do not breathe spray mist. Remove and wash contaminated clothing before reuse. Avoid contact with eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Personal Protective Equipment (PPE):

Mixers, loaders, applicators and all other handlers must wear:

- Long-sleeved shirt and long pants,
- Shoes plus socks
- Protective Eyewear
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥14 mils, neoprene rubber≥14 mils, nitrile rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, or Viton® ≥14 mils
- Wear a minimum of a NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridges and a combination R, or P filter; OR a NIOSH-approved gas mask with OV canisters; OR a NIOSH-approved powered air-purifying respirator with OV cartridges and combination HE filters.

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



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.

Environmental Hazards:

This product is toxic to aquatic invertebrates and wildlife. 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 and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

Ground Water Advisory

Chlorothalonil, one of the active ingredients in this product, is known to leach through soil into groundwater 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 ground water contamination.

Surface Water Advisory

This product can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

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.
Chlorothalonil	1897-45-6	~ 28

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
Chlorothalonil	1897-45-6	~ 28	Cancer

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)

- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H319: Causes serious eve irritation.

- H302: Harmful if swallowed.-

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- H330: Fatal if inhaled.
- H332: Harmful if inhaled.
- H335: May cause respiratory irritation.
- H351: Suspected of causing cancer.
- H400: Very toxic to aquatic life.
- 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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