

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name Mixture
Trade Names Arius 250
CAS No. Mixture

EPA Identification Number EPA Reg. No. 60063-59

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; Skin Sens. 1

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) WARNING

Hazard Statement(s)

Harmful if swallowed or if inhaled

May cause an allergic skin reaction.

Precautionary Statement(s)

Avoid breathing mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

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

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

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feel unwell. Treat symptomatically.

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.

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

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.

Other hazards
Additional Information

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

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Azoxystrobin	~ 23	131860-33-8	Acute Tox. 3; H331 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
1,2-benzisothiazolin-3-one	< 0.1	2634-33-5	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411

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 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

May cause an allergic skin reaction.

Indication of any immediate medical attention

and special treatment needed

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

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

Section 15.

Additional Information None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Avoid breathing mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear

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

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

Exposure controls

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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. Off-white to yellow orange Odour Characteristic

Odour Threshold (ppm) Not available.

7 12 pH (Value)

Melting Point (°C) / Freezing Point (°C) 116.0°C (Melting Point) Not available.

Boiling point/boiling range (°C): >110.0°C Flash Point (°C) Not available. Evaporation rate

Not available. Flammability (solid, gas) Not available. **Explosive Limit Ranges**

1.10 x 10⁻⁷ mPa (20°C) Vapour pressure Not available. Vapour Density (Air=1)

1.0758 g/mL Density (g/ml) Solubility (Water) 6.7 (mg l-1) @ 20°C Solubility (Other) Not available. Partition Coefficient (n-Octanol/water) Not available.

Auto Ignition Point (°C) Not available. Decomposition Temperature (°C) Not available. 372 @ 40 °C Kinematic Viscosity (cSt) Not explosive. Explosive properties Oxidising properties Not oxidising.

Other information Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No hazardous reactions known if used for its intended purpose.

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Chemical stability

Possibility of hazardous reactions

Conditions to avoid

Incompatible materials

Hazardous decomposition product(s)

Stable under normal conditions.

None anticipated. Incompatible materials

Strong oxidising agents. Substances that react with water.

Combustion or thermal decomposition will evolve toxic and irritant

vapours. Forms oxides of carbon and nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Substances

Not applicable

Mixtures

Acute toxicity Oral: LD50 1000 mg/kg-bw (rat)

Dermal: LD50 >2000 mg/kg-bw (rat) Inhalation: LC50 >2.073 mg/L (rat)

Skin corrosion/irritation Unlikely to cause skin irritation.
Serious eye damage/irritation Unlikely to cause eye irritation.
Respiratory or skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure

STOT - repeated exposure

Aspiration hazard

Not available.

Not available.

Not available.

Substances in preparations / mixtures

Azoxystrobin (CAS # 131860-33-8):

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

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.

Reproductive toxicity Not to be expected.

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)

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

Persistence and degradability Part of the components are poorly biodegradable.

Bioaccumulative potentialNot determined.Mobility in soilNot determined.Results of PBT and vPvB assessmentNot 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 subst	tance, liquid, n.o.s. (Azoxystrobin)
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 the skin. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. 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
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyethylene, polyvinyl chloride (PVC) ≥ 14 mils, or viton ≥ 14 mils
- In addition, mixers/loaders/applicators using mechanically pressurized handwands except when applying to Christmas tree farms, nursery ornamentals, landscaping, must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter; OR

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

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a NIOSH-approved elastomeric particulate respirator with any N, R or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters.

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 requirements may be reduced or modified as specified in the WPS.

Environmental Hazards:

Azoxystrobin is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Azoxystrobin can be persistent for several months or longer.

DO NOT discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. DO NOT discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or regional office of the EPA.

For terrestrial uses DO NOT apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean highwater mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. DO NOT contaminate water when disposing of equipment washwater or rinsate.

Ground Water Advisory

Azoxystrobin and a degradate of azoxystrobin are known to leach through soil to ground water under certain conditions as a result of label use. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisory

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. 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 loading of azoxystrobin and a degradate of azoxystrobin from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur 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		

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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: December 1, 2021

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

Hazard Statement(s)

- H302: Harmful if swallowed.

- H314: Causes severe skin burns and eye damage.

- H315: Causes skin irritation.

- H317: May cause an allergic skin reaction.

- H318: Causes serious eye damage.

- H319: Causes serious eye irritation.

- H331: Toxic if inhaled.

- H400: Very 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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