



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

AZARIUS

Revision Date 20-February 2020 **Version 1** **Product No** JTA/IE/004

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

AZARIUS

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

Recommended Use Fungicide
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Address JT Agro Ltd
1 Bell Street, Maidenhead, Berkshire,
SL6 1BU, U.K.
Tel: +44 1628 421599 Fax: +44 1628 421623

For further information, please contact

Email address info@jtagro-cropthetics.com

1.4. Emergency telephone number

Emergency Telephone National Chemical Emergency Centre (UK)
Tel: 01865 407333 (24 hours)

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture


Classification according to Regulation (EU) 1272/2008

Acute aquatic toxicity Category 1 H400
Chronic aquatic toxicity Category 1 H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. Label elements

Labelling: Regulation (EC) No. 1272/2008

Hazard pictograms		
		
Signal Word	Warning	
Hazard Statements	H410	Very toxic to aquatic life with long lasting effects
Precautions Statements	P102	Keep out of reach of children
	P270	Do not eat, drink or smoke when using this product
	P273	Avoid release to the environment
	P391	Collect spillage
	P501	Dispose of contents/container to a licensed hazardous- waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
Supplemental Information	EUH401	To avoid risks to human health and the environment comply with the instructions for use.

Hazardous components which must be listed on the label

2.3. Other hazards

No information available

Section 3: COMPOSITION/ INFORMATION ON INGREDIENTS

3.1. Mixtures

Hazardous components

Chemical Name	CAS No. EC No. Registration Number	Classification (REGULATION (EC) No. 1272/2008	Concentration
Azoxystrobin	131860-33-8	Acute Tox.3; H331 Aquatic Acute1; H400 Aquatic Chronic1; H410	22.9 % w/w
alcohols, C16-18, ethoxylated	68439-49-6	Eye Dam.1; H318 Acute Tox. 4; H302	10 - 18 % w/w

Naphthalenesulphonic acid, dimethyl-, polymer with formaldehyde and methyl-naphthalenesulfonic acid, sodium salt.	9008-63-3	Eye Irrit.2; H319 Skin Irrit.2; H315	1 - 5 % w/w
Propane-1,2-diol	57-55-6 200-338-0		4 - 12 % w/w

Substances for which there are Community workplace exposure limits.
For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control center or physician, or going for treatment.
Inhalation	Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre immediately.
Skin contact	Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting contains petroleum distillates and/or aromatic solvents.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms No information available

4.3. Indication of any immediate medical attention and special treatment needed

Medical advice There is no specific antidote available. Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Extinguishing media - large fires

Use alcohol-resistant foam or water spray.

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

5.3. Advice for firefighters

Wear full protective clothing and self-contained breathing apparatus. Do not allow run-off from firefighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Precautions Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). If the product contaminates rivers and lakes or drains inform respective authorities.

6.4. Reference to other Sections

Refer to protective measures listed in sections 7 and 8. Refer to disposal considerations listed in section 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Registered Crop Protection products: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
azoxystrobin	2 mg/m ³	8 h TWA	UK HSE
Propane-1,2-diol	10 mg/m ³ (particulates) 150 ppm, 470 mg/m ³	8 h TWA 8 h TWA	UK HSE UK HSE

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

8.2. Exposure controls

Engineering measures

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne dust is generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

Protective measures

The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

Respiratory protection

No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed

Hand protection

Chemical resistant gloves are not usually required. Select gloves based on the physical job requirements.

Eye protection

Eye protection is not usually required. Follow any site-specific eye protection policies.

Skin and body protection

No special protective equipment required. Select skin and body protection based on the physical job requirements.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	Liquid
Form	Liquid
Colour	Off-white to yellow orange

Odour	No data available
Odour Threshold	No data available
pH	5-9 at 1% w/v
Melting point/range	No data available
Boiling point/boiling range	No data available
Flash point	> 97 °C at 97.5 kPa Pensky-Martens c.c.
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	No data available
Relative vapour density	No data available
Density	1.1 g/ml 1.09 g/cm ³
Solubility in other solvents	No data available
Partition Coefficient	
n-octanol/water	No data available
Autoignition temperature	475 °C
Thermal decomposition	No data available
Viscosity, dynamic	76.0 - 427 mPa.s at 40 °C 117 - 541 mPa.s at 20 °C
Viscosity, kinematic	No data available
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

9.2. Other information

Miscibility	Miscible
Surface tension	32.0 mN/m at 20 °C

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No information available

10.2. Chemical stability

No information available

10.3. Possibility of hazardous reactions

None known. Hazardous polymerisation does not occur.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Combustion or thermal decomposition will evolve toxic and irritant vapours.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute oral toxicity	LD50 rat, >2000 mg/kg The toxicological data has been taken from products of similar composition.
Acute inhalational toxicity	LC50 rat, > 6.32 mg/ml, 4h The toxicological data has been taken from products of similar composition.
Acute dermal toxicity	LD50 rat, >2000 mg/kg The toxicological data has been taken from products of similar composition.
Skin corrosion/irritation	Rabbit: non-irritating The toxicological data has been taken from products of similar composition
Serious eye damage/eye irritation	Rabbit: non-irritating The toxicological data has been taken from products of similar composition
Respiratory or skin sensitization	Guinea pig: not sensitizing The toxicological data has been taken from products of similar composition
Germ cell mutagenicity	Did not show mutagenic effects in animal experiments.
Carcinogenicity	Did not show carcinogenic effects in animal experiments.
Reproductive toxicity	Did not show reproductive toxicity effects in animal experiments.
STOT - repeated exposure	No adverse effect has been observed in chronic toxicity tests.

Further information

No further toxicological information is available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity to fish	LC50 Oncorhynchus mykiss (rainbow trout), 1.2 mg/l, 96 h LC50 Cyprinus carpio (Carp), 2.8 mg/l, 96 h
Toxicity to aquatic invertebrates	EC50 Daphnia magna (Water flea), 0.83 mg/l, 48 h.
Toxicity to aquatic plants	ErC50 Pseudokirchneriella subcapitata (green algae), 2.2 mg/l, 72 h

12.2. Persistence and degradability

Biodegradability	Not readily biodegradable
Stability in water	Degradation half-life: 214 d. Stable in water
Stability in soil	Degradation half-life: 80 d. Not persistent in soil

12.3. Bioaccumulative potential

Bioaccumulation	azoxystrobin: Does not bioaccumulate.
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12.4. Mobility in soil

Mobility in soil	azoxystrobin: The substance has low to very high mobility in soil.
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12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment	azoxystrobin: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
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12.6. Other adverse effects

None known

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product	Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.
Contaminated packaging	Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

Section 14: TRANSPORT CONSIDERATIONS

Land Transport (ADR/RID)

14.1 UN Number	UN 3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AZOXYSTROBIN)
14.3 Transport hazard class(es)	9
14.4 Packing Group	III
Labels	9
14.5 Environmental hazards	Environmentally hazardous

Sea transport (IMDG)

14.1 UN Number	UN 3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AZOXYSTROBIN)
14.3 Transport hazard class(es)	9
14.4 Packing Group	III
Labels	9
14.5 Environmental hazards	Marine Pollutant

Air transport (IATA-DGR)

14.1 UN Number	UN 3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AZOXYSTROBIN)
14.3 Transport hazard class(es)	9
14.4 Packing Group	III
Labels	9
14.6 Special precautions for user	none

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not Applicable

Section 15: REGULATORY INFORMATION

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

Hazard pictograms



Signal Word

Warning

Hazard Statements

H410

Very toxic to aquatic life with long lasting effects

Precautions Statements	P102	Keep out of reach of children
	P270	Do not eat, drink or smoke when using this product
	P273	Avoid release to the environment
	P391	Collect spillage
	P501	Dispose of contents/container to a licensed hazardous- waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
Supplemental Information	EUH401	To avoid risks to human health and the environment comply with the instructions for use.

Hazardous components which must be listed on the label

15.2. Chemical Safety Assessment

A chemical safety assessment is not required.

Section 16: OTHER INFORMATION

Further information

H302	Harmful if swallowed
H315	Causes skin irritation
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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

