

SAFETY DATA SHEET

MSDS completed: 25-07-18
Revision: (N/A) Version: 1
Replaces SDS dated: (N/A)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

PANTHA

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

Professional use agricultural fungicide

1.3 Details of the supplier of the safety data sheet

TerreChem Ltd
PO Box 12351,
Braintree, Essex,
CM7 0JS, UK.
Tel: 01371 811236
Email: contact@terrechem.co.uk

1.4 Emergency telephone number

IN CASE OF TOXIC OR TRANSPORT EMERGENCY

National Chemical Emergency Centre: Telephone 01865 407333.

For the emergency information telephone National Poisons Information Service at one of the following numbers:

London 020 7635 9191

Belfast 01232 240503

Birmingham 0121 507 5588

Penarth 01222 709901

Edinburgh 0131 536 2300

Leeds 0113 243 0715 Newcastle

0191 232 5131

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008:

Acute toxicity hazard category 4

Hazardous to the aquatic environment - Acute 1

Hazardous to the aquatic environment - Chronic 1

2.2 Label elements

Label elements in accordance with Regulation (EC) No 1272/2008:

Contains: Contains 250g/l Azoxystrobin.

Hazard pictograms: GHS07, GHS09



Signal word: **WARNING**

Hazard statements:

H332 Harmful if inhaled

H410 Very toxic to aquatic life with long lasting effects

Precautionary statements

P261 - Avoid breathing mist/spray

P271 - Use only outdoors or in a well-ventilated area

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

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.

Supplementary statements

EUH401 - To avoid risks to human health and the environment comply with the instructions for use

2.3 Other hazards

This mixture does not meet the criteria for PBT or vPvB.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical Name	CAS / EC Number	CLP Annex Index Number	Classification according to Regulation (EC) 1272/2008	Concentration
Azoxystrobin	CAS: 131860-33-8	607-256-00-8	Acute Tox. 3 - H331 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410	>20 - <25

Please refer to section 16 for full text of hazard phrases if not displayed in section 2 or 3.

4. FIRST AID MEASURES

4.1 Description of first aid measures:

General notes: If medical advice is needed, have product container, label or SDS at hand. **Inhalation:** Remove person to fresh air and keep comfortable for breathing, obtain medical attention immediately

Eye contact: As a precaution rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. Remove contact lenses. Obtain medical attention immediately

Skin contact: Take off all contaminated clothing. Wash with plenty of water. Wash contaminated clothing before re-use. If any symptoms develop obtain medical attention.

Ingestion: Rinse mouth. Drink plenty of water. Seek medical attention and show the container/label.

Contact a doctor or medical service if the user feels unwell.

4.2 Most important symptoms and effects, both acute and delayed

No additional information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment – alcohol resistant foam, dry chemical, water spray.

Unsuitable Extinguishing Media:

Solid water jet – this may spread the fire.

5.2 Specific hazards arising from the substance or mixture

No specific hazard known.

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.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas.

Wear protective gloves/clothing and eye/face protection.

Avoid contact with skin, eyes and inhalation of vapours

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. If this product enters a water course or a sewer (including via contaminated soil & vegetation) contact local water authority and inform the Environment Agency (emergency number 0800 807060)

6.3 Methods and material for containment and cleaning up

Absorb spill with inert material, Take up mechanically and place in appropriate containers for disposal.

6.4 Reference to other sections

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

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. When using do not eat, drink or smoke. Ensure adequate ventilation. Use personal protective equipment as specified in section 8.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children, Keep away from food drink and animal feedstuffs. Keep away from heat. Protect from direct sunlight. Protect from temperatures below: 0 °C.

7.3. Specific end use(s)

Refer to product label.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Occupational Exposure Limits

Component - Azoxystrobin

CAS-No. – 131860-33-8

TWA – 4mg/m³ (value based on similar product)

8.2 Exposure Controls

All Personal protective equipment must be CE marked.

Engineering Measures: Ensure adequate ventilation and maintain air concentration below 4mg/m³.

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: Only required in case of insufficient ventilation. Respirator with a half face mask
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection: Chemical resistant gloves should be used. Suitable material: nitrile rubber.

Eye Protection: Use tight-fitting chemical safety goggles.

Skin and body protection: Select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State: Liquid

Form: Suspension concentrate

Colour: Off-white

pH solution: 6 – 8 Concentration: 1% w/v

Evaporation rate: No data available

Flammability (solid, gas): product not classified as flammable (Flash point >97°C, auto ignition 475°C)

Lower explosion limit: product not classified as explosive

Upper explosion limit: product not classified as explosive

Oxidising Properties: product not classified as oxidising

Vapour pressure: No data available

Relative vapour density: No data available

Density: 1.1 g/cm³ (25 °C)

Solubility in water: soluble

Dynamic viscosity: 117-541 mPa.s (20°C)

9.2 Other information

No other relevant information identified

10. STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated

10.2 Chemical stability

Product is stable if stored and handled as prescribed/indicated

10.3 Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

10.4 Conditions to avoid

Extremes of temperature

10.5 Incompatible materials

General substances to avoid as good practice: strong bases, strong acids, strong oxidizing agents

10.6 Hazardous decomposition products

Combustion or thermal decomposition will produce toxic and irritant vapours

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

azoxystrobin:

Acute oral toxicity: LD50 (Rat, male and female): > 5,000 mg/kg

Acute inhalation toxicity:	LC50 (Rat, female): 0.7 mg/l Exposure time: 4 h LC50 (Rat, male): 0.9 mg/l Exposure time: 4 h
Acute dermal toxicity:	LD50 (Rat, male and female): > 2,000 mg/kg
Skin irritation:	Not irritant
Sensitising:	Not sensitising

Please see section 2 and 3 for full product classification details and warnings

12. ECOLOGICAL INFORMATION

Product classified as Very toxic to aquatic life with lasting effects. Information in the sections below relate to the active substance Azoxystrobin

12.1 Toxicity

Aquatic toxicity azoxystrobin:

Toxicity to fish:	LC50 (96h) (Oncorhynchus mykiss (rainbow trout)): 0.47 mg/l
Toxicity to aquatic invertebrates:	EC50 (48h) (Daphnia magna (Water flea)): 0.23 mg/l
Toxicity to algae:	EC50 (72h) (Selenastrum capricornutum): 0.36 mg/l

12.2 Persistence and Degradability

Not readily biodegradable.

12.3 Bioaccumulative Potential

Low bioaccumulation potential.

12.4 Mobility in Soil

Very high mobility in soil

12.5 Results of PBT and vPvB Assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

12.6 Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. 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.

14. TRANSPORT INFORMATION

14.1 UN number

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

14.5 Environmental hazards

Very toxic to aquatic life with lasting effects

14.6 Special precautions for user

No further information available

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

Information not available.

15. REGULATORY INFORMATION

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

This mixture is classified and labelled in accordance with Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures and Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2 Chemical Safety Assessment

Not required

16. OTHER INFORMATION

Full text of H statement not provided in section 2 or 3:

Acute Tox. 3 - H331: Toxic if inhaled.

Aquatic Acute 1 – H400: Very toxic to aquatic life.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate. This Safety Data Sheet is prepared in compliance with Annex I of Regulation (EC) No 1907/2006 (REACH) as amended by Regulation (EU) 2015/830. No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet. This version replaces all previous versions.

END OF SAFETY DATA SHEET