SAFETY DATA SHEET
AZOXYSTAR
MSDS DATE: 18/04/16
VERSION: 2.1

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

1.1 Product Identifier

Product Name:	Azoxystar
Product Description:	Suspension Concentrate
Chemical description of active substance (s):	methyl (E)-2-{2-[6-(2-cyanophenoxy) pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate
Chemical Family:	Strobilurin
GCPF code:	SC (Suspension Concentrate)

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

Product Use**:** Agriculture – Fungicide

1.3 Details of the supplier of the safety data sheet

Company:	Life Scientific Ltd, NovaUCD, Belfield Innovation Park Dublin 4 Ireland
Telephone:	+353 (0) 1 2832024
Fax:	+353 (0) 1 2832026
Web:	www.lifescientific.com

1.4 Emergency contact information

In case of Emergency: www.npis.org
www.nhsdirect.nhs.uk - 0845 4647 or 111
www.nhs24.com - 08454 24 24 24

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aquatic Acute	Category 1	H400
Aquatic Chronic	Category 1	H410

2.2 Label Elements

Classification according to Regulation (EC) No 1272/2008

Hazard pictograms

Hazard statements:

H410 Very toxic to aquatic life with long lasting effects

Hazard statements:

Warning

Precautionary statement:

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 an approved waste disposal plant

Supplemental information:

EUH401 To avoid risks to man and environment comply with the instructions for use.

2.3 Other Hazards

Special labelling of certain mixtures: To avoid risks to man and environment comply with the instructions for use.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

No substances fulfil the criteria set out in Annex II, Part A of the REACH Regulation (EC) No 1907/2006.

3.2 Mixtures

Chemical Name	CAS	EC	Classification (Regulation (EC) No 1272/2008)	Concentration (% $^{w}/_{w}$)
Azoxystrobin	131860-33-8	-	Acute Tox. 3, H331 Aqua. Acute 1, H400 Aquatic Chronic 1, H410	22.9
Alcohols, C16-18, Ethoxylate.	68439-49-6	200-338-0	Eye Dam.1, H318 Acute Tox. 4, H302	10-18
Propane-1,2-Diol	57-55-6	-	-	4-12
Sodium naphthalene formaldehyde condensate	9008-63-3	-	Eye Irrit.2, H319 Skin Irrit.2, H315	1-5

4. FIRST AID MEASURES

Generally, in case of doubt or if symptoms persist, always call a doctor. NEVER give anything by mouth to an unconscious person.

4.1 Description of first aid measures

Inhalation: If inhaled, remove victim to fresh air. If breathing is difficult, give oxygen. If breathing is irregular or stopped, give artificial respiration. Consult a physician or Poison Control Centre immediately.

Ingestion : DO NOT induce vomiting unless directed to do so by a Poison Control Centre. If patient is conscious, wash out mouth with water. Seek medical advice and show the product container, label or data sheet if possible.

Skin contact: Remove contaminated clothing immediately. Wash skin immediately with plenty of water. If skin irritation persists, Consult a physician. Wash contaminated clothing before re-use.

Eye contact: Remove contact lenses if present. Rinse immediately with plenty of water, with the eyelid open for at least 15 minutes. Obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No known symptoms

4.3 Indication of any immediate medical attention and special treatment needed

Information to physician: Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

For small fires: Use water spray, dry chemical, alcohol-resistant foam or carbon dioxide.
For large fires: Use alcohol-resistant foam or water spray. Avoid using solid water stream as it may cause the fire to scatter or spread.

5.2 Special hazards arising from the substance or mixture

The product contains combustible organic components, in case of fire, dense black smoke containing hazardous combustion products will be formed. Inhalation of decomposition products may cause health problems

5.3 Advice for Firefighters

Wear self-contained breathing apparatus. Fight fire from a safe distance and a protected location.
Further information ：Do not allow run-off from fire fighting 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

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in drums for waste disposal. Prevent entry into sewers or waterways.

6.3 Methods and materials for containment and cleaning up

Clean preferably with a detergent, avoid the use of solvents.

6.4 Reference to other sections

No data is available.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special technical protective measures required. No special handling advice 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

Storage: Keep out of the reach of children.
Packing: Always keep in containers of same material as the original

7.3 Specific end use(s)

No data is available.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Component	Exposure Limits	Categories	Source
Azoxystrobin	2 mg/m^3	TWA	Supplier
Propane-1,2-diol	10 mg/m^3 particulates 150 ppm Total (vapour and particulates) 474 mg/m^3	TWA	UK EH40 Occupational Exposure Limits

8.2 Exposure controls

Individual protection measures, such as personal protective equipment :

Use personal protective equipment that is clean and properly maintained. Store personal protective equipment in a clean place, away from the work area.

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before reuse. Ensure adequate ventilation, especially in confined areas .

Eye / face protection:

Avoid contact with eyes. Use safety eyewear designed to protect against liquid splashes. It is necessary to wear safety goggles in accordance with standard EN166 .

Protection of hands:

Wear suitable protective gloves if prolonged or repeated contact with skin.

Body protection:

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

Respiratory protection:

Filters - anti-gas and vapours (Combined filters) to the NF EN14387 : A1 (Brown)

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form:	Liquid
Colour:	Off-white to yellow orange
Odour:	No particular odour

Chemical properties

pH (at 20 °C):	No data available
Oxidising properties :	Not oxidising
Explosive properties:	Not explosive
Density (g/cm^3):	1.09
Solubility in water:	Miscible
Log P octanol/water at 20°C:	No data available
Flash point (°C):	> 97 at 97.5 kPa Pensky-Martens
Dynamic viscosity:	117 – 541 mPa.s. at 20 °C

9.2 Other Information

None

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data is available

10.2 Chemical Stability

This mixture is stable at the handling and storage conditions recommended in Section 7.

10.3 Possibility of hazardous reactions

No data is available

10.4 Conditions to avoid

Avoid: Heat

10.5 Incompatible material

Keep away from oxidizing agents

10.6 Hazardous decomposition products

Thermal decomposition may release / form:
- Carbon monoxide (CO)
- Carbon dioxide (CO2)

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral Toxicity LD_{50} Rat:	>2000 mg/kg
Acute Dermal Toxicity LD_{50} Rat:	>4000 mg/kg
Acute Inhalation Toxicity LC_{50} Rat:	>6.32 mg/l, 4 h. Based on test results obtained with similar product.
Acute Eye Irritation, Rabbit:	Non-irritant
Acute Skin Irritation, Rabbit:	Non-irritant
Sensitisation – Guinea pig:	Not sensitising
Long-Term Toxicity:	Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

LC_{50} Rainbow trout (96 h):	1.2 mg/L
LC_{50} Mirror carp (96 h):	2.8 mg/L
EC_{50} Daphnia magna (48 h):	0.83 mg/L
E_bC_{50} Green algae (72 h):	0.71 mg/L
E_rC_{50} Green algae (72 h):	2.2 mg/L

12.2 Persistence and degradability

Stability in water:	Azoxystrobin is stable in water.
Stability in soil:	Azoxystrobin is moderately persistent in soil.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

Mobility: Azoxystrobin has moderate mobility in soil.

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not discharge into drains or rivers. Waste management is performed without endangering human health and without harming the environment, and in particular without risk to water, air, soil, fauna and flora.
Recycle or dispose of in accordance with current legislation, preferably via a certified collector or company.
Do not contaminate the ground or water with waste; do not dispose of waste into the environment.
Contaminated packaging: Empty container completely. Keep the label on the recipient.

14. TRANSPORT INFORMATION

Transport in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO / IATA for air transport (ADR 2011 - IMDG 2010 - ICAO / IATA 2011).

14.1 UN Number

3082

14.2 UN proper shipping name

Environmentally hazardous substance, liquid, N.O.S., (Azoxystrobin).

14.3 Transport hazard class

9

14.4 Packing group

III

14.5 Environmental hazards

Dangerous for the environment

14.6 Special precautions for user

None

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

No data available

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture in Section 3.

To avoid risks to man and the environment, comply with the instructions for use.

15.2 Chemical safety assessment

None

16. OTHER INFORMATION

Full text hazard statements mentioned in section 2 and 3.

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage
H319 Causes severe eye irritation.
H331 Toxic if inhaled.
H400 Very toxic to aquatic organisms
H410 Very toxic to aquatic organisms with long lasting effects.

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