

## Material Safety Data Sheet

# Harness

### 1. Identification of the substance/preparation and company/undertaking:

MAPP Number: **MAPP 14803**

Trade Name: Harness

*Recommended Uses:* Strobilurin fungicide for disease control in managed and amenity turf grass.

Manufacturer/Supplier:  
ChemSource Limited  
5 Jupiter House,  
Calleva Park,  
Aldermaston  
Reading, Berks.  
RG7 4NN  
United Kingdom

Telephone number: 0845 459 4039

E-mail: james@chemsource.co.uk

Emergency Telephone Nos: 0845 459 4039 [ChemSource 24 hrs.]  
0870-600-6266 [UK National Poisons Control  
Information Service (NPIS) Centre]  
01-8379964/66 [Poisons Information Centre,  
Beaumont Hospital, Beaumont, Dublin 9, Ireland]

### 2. Composition/Information on Ingredients:

#### HAZARDOUS COMPONENTS:

Component	CAS Reg. No.	EINECS ELINCS No.	Conc. % w/w	Risk Phrases*	Hazard Symbol
Azoxystrobin	131860-33-8	-	50	R23, R50, 53	T, N
Sulphuric acid, mono-C12-18 alkyl esters, sodium salts	68955-19-1	-	0.1-0.5	R36, 38	Xi
Naphthalene sulphonic acid, sodium salt, polymer with formaldehyde	9008-63-3	-	0.5-1.0	R36, 38	Xi

\* See Section 16 for details of risk phrases.

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### 3. Hazards Identification

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**Health Hazards:** May form a flammable dust/air mixture.

**Environmental hazard in case of accident (spillage or leakage):** Very toxic to aquatic organisms; may cause long term adverse effects in the aquatic environment.

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### 4. First Aid Measures

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**General:** Have the product container, label or Materials Safety Data Sheet with you when calling the Poisons Information Service, ChemSource, a physician or when going for medical treatment. Move out of contaminated area and place victim in the recovery position if necessary. Remove contaminated clothing and dispose of safely.

**Skin Contact:** Remove contaminated clothing and wash thoroughly before re-use. Wash affected area immediately with plenty of water. If skin irritation persists, call a physician.

**Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes, including under eyelids. Remove contact lenses if worn. Immediate medical attention is required.

**Inhalation:** Remove patient to fresh air and seek medical advice immediately. Keep the patient warm and at rest. If breathing is irregular or has stopped, administer artificial respiration.

**Ingestion:** If swallowed, contact poison control centre or seek medical advice immediately and show product container or label. DO NOT induce vomiting. If the patient is conscious, rinse mouth with clean water and dispose of residues safely.

**Note to medical staff:** There is no specific antidote. Treat symptomatically.

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### 5. Fire-fighting measures:

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**Extinguishing Media for fires:** For small fires use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. For large fires use an alcohol-resistant foam or water spray. DO NOT use a solid water stream as this may scatter and spread the fire.

**Specific hazards during fire-fighting:** During a fire the smoke produced may contain toxic and irritating vapours.

**Special protective equipment for fire-fighters:** Wear full protective clothing and self-contained breathing apparatus. DO NOT breathe fumes.

**Further Information:** Contain fire-fighting water with sand or some such bunding material to prevent entry to drains or water courses. Avoid breathing smoke. Cool closed containers exposed to the fire with a water spray.

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## 6. Accidental release measures:

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**Personal precautionary measures:** Avoid dust formation. Wear the personal protective equipment outlined in section 8 below. Remove contaminated clothing immediately. Wash skin area with soap and water. Wash clothing before re-use.

**Environmental protection measures:** Keep the area isolated and do not allow contamination to enter drains or waterways. Prevent further leakage if safe to do so. Spillage or uncontrolled discharges into watercourses must be alerted to the National Rivers Authority or Environmental Agency (Tel: 0800 807060).

**Procedures for cleaning/absorption:** Sweep up or vacuum up any spillages using electrically protected vacuum cleaner and place in containers for disposal according to local/national regulations (see section 13). Take care not to form a dust cloud since this may form a flammable mixture with air.

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## 7. Handling and storage:

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**Handling:** Keep away from sources of ignition. If dust is released during handling, this can form a flammable mixture with air which, if ignited, will cause a dust cloud explosion. All handling equipment and storage containers should be grounded to avoid the risk of spark generation by electrostatic discharge.

**Storage:** Store in a cool dry and well-ventilated place in the original containers and protect from excessive heat or cold. Keep in an area accessible to authorised personnel only. Store away from food, drink and animal feeding stuffs.

**Additional information:** The product is stable for at least two years when stored at ambient temperatures in the unopened container.

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## 8. Exposure controls/Personal protection:

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### COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

Components	Exposure limits	Values
Azoxystrobin	2 mg/m <sup>3</sup>	8 h TWA

**Engineering measures to reduce exposure:** Engineering controls to avoid exposure are preferable to personal protective equipment where practically feasible to use. Good general ventilation is sufficient for most operations and local exhaust ventilation is needed in some situations.

**Personal protective equipment:** Avoid contact with skin, eyes or clothing. Keep work clothes separate from other clothing. When using, consult the label for appropriate protective equipment. In all other situations, use the following personal protective equipment.

**Eye protection:** Eye protection is not normally required but where worn, should comply with standard EN166.

**Hand protection:** Chemical-resistant gloves are not normally required. Select gloves according to the physical needs of the task. Wash hands before eating, drinking or smoking and before using the toilet.

**Respiratory protection:** No personal respiratory protection is normally required but, if there is a risk of inhaling particles, wear a particulate filter until effective technical measures are installed.

**Skin and body protection:** Wear suitable protective clothing based on the physical job requirements. When finished, wash with soap and water after removing protective clothing. Decontaminate clothing before re-use or use disposable clothing. Do not eat, drink or smoke while working. Store away from food, drink and animal feeding stuffs.

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## 9. Physical and chemical properties:

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Appearance:	Granular.
Colour:	Pale brown.
pH value:	6.5 @1% w/v
Density:	0.54 g/ml.
Dust explosive class:	Can form flammable dust clouds.
Minimum ignition energy:	3 -10 mJ
Oxidising properties:	Not oxidising.
Explosive properties:	Not explosive.
Water solubility:	Miscible.

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## 10. Stability and reactivity:

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**Stability:** Stable under normal storage conditions.

**Hazardous reactions:** None known when stored or used as recommended. Combustion or thermal decomposition will result in the release of toxic and irritant vapours. Hazardous polymerisation does not occur.

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## 11. Toxicological information:

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Oral toxicity (LD <sub>50</sub> ):	>5000 mg/kg (rat)
Acute dermal toxicity (LD <sub>50</sub> ):	>2000 mg/kg (rat).
Acute inhalation toxicity (LC <sub>50</sub> ):	>4.67 mg/l over 4 hours (based on test results with a similar product).
Skin irritation:	Slightly irritating to skin (rabbit).
Eye irritation:	Moderate eye irritation (rabbit).
Sensitisation:	Non-sensitising (Guinea pig skin)

Does not exhibit carcinogenic, teratogenic or mutagenic effects in animal experiments.

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**12. Ecological information:**

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**Ecotoxicological effects:**

Toxicity to fish (LC<sub>50</sub>): 1.1 mg/l (*Onchorhynchus mykiss* [rainbow trout]).  
2.4 mg/l (*Lepomis macrochirus* [Bluegill Sunfish])  
Exposure time 96 hours.

Toxicity to algae (EbC<sub>50</sub>): 120 µg/l (green algae). Exposure time 72 hours.

Toxicity to aquatic  
Invertebrates (EC<sub>50</sub>): 1.8 µg/l (*Daphnia magna* [water flea]).  
Exposure time 48 hours.

Azoxystrobin is stable in water but not persistent in soil

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**13. Disposal considerations:**

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**Waste from residues and unused product:** Do not contaminate ponds, waterways or ditches. In accordance with current regulations after consultation with a disposal site operator and/or the responsible authority, this product may be taken to a waste disposal site or an incineration plant.

**Contaminated packaging:** Empty containers and triple rinse. Dispose of empty containers according to the 'Code of Practice for the Safe Use of Pesticides on Farms and Holdings' available from HMSO. Do not re-use container for any purpose.

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**14. Transport information:**

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**LAND/SEA/AIR (RID / ADR / IMDG / IATA\*)**

Labels	UN Number	Packaging group
9	3077	III

**Description of goods:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Azoxystrobin).

**Marine pollutant:** Yes

**\* IATA** Not classified as dangerous according to air transport regulations

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**15. Regulatory information:**

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**Hazard symbol/  
Classification :** N DANGEROUS FOR THE ENVIRONMENT

**Risk phrases (R):** R50/53 Very toxic to aquatic organisms; may cause long term adverse effects in the aquatic environment.

**Safety phrases:** S2 Keep out of reach of children.  
S13 Keep away from food, drink and animal feed.  
S20/21 When using, do not eat, drink or smoke.  
S35 This material and its container must be disposed of in a safe way.

S57 Use appropriate containment to avoid environmental contamination.

**Special note:** To avoid risks to man and the environment, comply with the instructions for use.

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**16. Other information:**

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**Health and Environmental Hazards:**

Text of R phrases mentioned in Section 2.

**Risk phrases (R)**

R23	Toxic by inhalation.
R36/38	Irritating to eyes and skin.
R50/53	Very toxic to aquatic organisms; may cause long term adverse effects in the aquatic environment.

**Date of first issue:** 7<sup>th</sup> June 2010

**Disclaimer:** The information contained in this MSDS is designed to give general health and safety guidance on the storage and transport of the substance/preparation to which it relates. Requirements arising from a Risk Assessment of the substance/preparation in a particular working environment should take precedence over any of the guidance contained in this MSDS where there is a difference in the information given. The information contained in this MSDS is accurate at the date of publication and will be updated as and when appropriate. Liability will not be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this MSDS.

Compiled in accordance with EC Directive 91/155/EEC and subsequent amendments EC Directives 93/112/EEC and 2001/58/EC.