

MAXIDOR

Version 10

Revision Date 06.09.2004

Print Date 06.09.2004

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**PRODUCT INFORMATION****Product name** : MAXIDOR**Design Code** : A12705B**Use** : Fungicide**Company** : Makhteshim-Agan SA (Pty) Ltd
21 Viben Street
Brackenfell
7561**Dangerous for
the environment****Emergency
telephone number** : +27 (0) 8312 33 911 (Bateleur 911)**2. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

Chemical Name	CAS-No.	EC-No.	Symbol(s)	R-phrase(s)	Concentration
azoxystrobin	131860-33-8		T, N	R23 R50/53	22.9 % W/W
propane-1,2-diol	57-55-6	200-338-0			>= 1 - <= 10 % W/W
alcohols, C16-18, ethoxylated	68439-49-6		Xn	R22 R36	>= 5 - <= 10 % W/W
naphthalenesulfonic acid, sodium salt, polymer with formaldehyde	9008-63-3		Xi	R36/38	>= 1 - <= 5 % W/W

For the full text of the R phrases mentioned in this Section, see Section 16.

3. Hazards identification

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. 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** : Remove to fresh air.
If breathing is irregular or stopped, administer artificial respiration.

MAXIDOR

Version 10

Revision Date 06.09.2004

Print Date 06.09.2004

- Inhalation** : Remove 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.
- Medical advice** : There is no specific antidote available. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media** : Extinguishing media - small fires
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media - large fires
alcohol-resistant foam
water spray
- Extinguishing media which must not be used for safety reasons** : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during fire fighting** : 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.
- Special protective equipment for fire-fighters** : In the event of fire, wear self-contained breathing apparatus.
- 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.

MAXIDOR

Version 10

Revision Date 06.09.2004

Print Date 06.09.2004

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so.
Do not flush into surface water or sanitary sewer system.
- Methods for cleaning up** : Contain and collect spillage 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).
- Additional advice** : If the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE

HANDLING

- Advice on 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.

STORAGE

- Requirements for storage areas and containers** : 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 feed.
- Other data** : Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

MAXIDOR

Version 10

Revision Date 06.09.2004

Print Date 06.09.2004

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Components with workplace control parameters**

Components	Exposure limit(s)	Value type	Source
azoxystrobin	2 mg/m ³	8 h TWA	SYNGENTA
propane-1,2-diol	10 mg/m ³ 470 mg/m ³	Particulates Total (vapour & particulates)	8 h TWA UK HSE

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 mists or vapors are 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.

PERSONAL PROTECTIVE EQUIPMENT

- 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. Eye/face protection should be certified to EN 166.
- Skin and body protection** : No special protective equipment required. Select skin and body protection based on the physical job requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form** : fluid
- Colour** : off-white to yellow orange
- Flash point** : > 97 °C at 97.5 kPa Pensky-Martens c.c.

MAXIDOR

Version 10

Revision Date 06.09.2004

Print Date 06.09.2004

Oxidizing properties	: not oxidizing
Density	: 1.09 g/cm ³
Water solubility	: Miscible
Viscosity, dynamic	: 117 - 541 mPa.s at 20 °C
	: 76.0 - 427 mPa.s at 40 °C

10. STABILITY AND REACTIVITY

Hazardous decomposition products	: Combustion or thermal decomposition will evolve toxic and irritant vapors.
Hazardous reactions	: None known. Hazardous polymerization does not occur Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 rat, > 2,000 mg/kg
Acute inhalation toxicity	: LC50 rat, > 6.32 mg/l, 4 h Based on test results obtained with similar product.
Acute dermal toxicity	: LD50 rat, > 4,000 mg/kg
Skin irritation	: rabbit: non irritant
Eye irritation	: rabbit: non irritant
Sensitization	: guinea pig not sensitizing
Long term toxicity	 Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

MAXIDOR

Version 10
Revision Date 06.09.2004

Print Date 06.09.2004

12. ECOLOGICAL INFORMATION

ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)

- Stability in water** : Azoxystrobin is stable in water
- Stability in soil** : Azoxystrobin is not persistent in soil
- Mobility** : Azoxystrobin has low to very high mobility in soil

ECOTOXICITY EFFECTS

- Toxicity to fish** : LC50 Rainbow trout, 1.2 mg/l , 96 h
: LC50 mirror carp, 2.8 mg/l , 96 h
- Toxicity to aquatic invertebrates** : EC50 Daphnia magna (water flea), 0.83 mg/l , 48 h
- Toxicity to algae** : ERC50 Pseudokirchneriella subcapitata (green algae), 2.2 mg/l , 72 h
: EBC50 Pseudokirchneriella subcapitata (green algae), 0.71 mg/l , 72 h

13. DISPOSAL CONSIDERATIONS

- 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.

14. TRANSPORT INFORMATION

MAXIDOR

Version 10

Revision Date 06.09.2004

Print Date 06.09.2004

Land transport

ADR/ RID:

UN-No: 3082
Class: 9
Danger Label Number : 9
Packaging group III
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(AZOXYSTROBIN)

Sea transport

IMDG:

UN-No: 3082
Class: 9
Danger Label Number : 9
Packaging group: III
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(AZOXYSTROBIN 25%)

Marine pollutant : Marine pollutant

Air transport

IATA-DGR

Proper shipping name :

Further information for transport: Not classified as dangerous in the meaning of air transport regulations.

15. REGULATORY INFORMATION

labelling according to EEC Directive

Symbol(s): : N Dangerous for the environment
R-phrase(s) : R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

MAXIDOR

Version 10

Revision Date 06.09.2004

Print Date 06.09.2004

S-phrase(s)	: S 2	Keep out of the reach of children.
	S13	Keep away from food, drink and animal feedingstuffs.
	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.

Exceptional labelling of special preparations : To avoid risks to man and the environment, comply with the instructions for use.

16. OTHER INFORMATION**Further information**

Text of R phrases mentioned in Section 2:

R22	Harmful if swallowed.
R23	Toxic by inhalation.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

A vertical bar in the left margin indicates an amendment from the previous version.

Product names are a trademark or registered trademark of a Syngenta Group Company.