

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING PRODUCT INFORMATION

Product name : Azoxystrobin 250g/L SC

Use : fungicide

Company / undertaking identification

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

| Chemical Name | CAS-No. | EC-No. | Symbol(s) | R-phrase(s) | Concentration |
|---------------|-------------|--------|-----------|---------------|---------------|
| azoxystrobin | 131860-33-8 | | T, | R23 R50/53 | 250g/L |
| Inert | N/A | N/A | N/A | N/A | 750g/L |

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 emergency number,

Inhalation : Remove to fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Keep patient warm and at rest.

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 firefighters:

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.

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 away from food, drink and animal feedingstuffs.

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 |

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.

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 : suspension

Colour : off-white to yellow orange

Oxidizing properties : not oxidizing

Explosive properties : Not explosive

Density : 1.09 g/cm³ at 20 °C

Water solubility : Miscible

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, > 5,000 mg/kg

Acute inhalation toxicity : LC50 Rat, > 6.32 mg/l, 4 h

Acute dermal toxicity : LD50 , > 2,000 mg/kg

Skin irritation : Rabbit: non irritant

Eye irritation : Rabbit: non irritant

Sensitization : guinea pig

Long term toxicity

Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

12. ECOLOGICAL INFORMATION

ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)

Bioaccumulation : Azoxystrobin has medium potential for bioaccumulation.

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 Oncorhynchus mykiss (rainbow trout), 2.4 mg/l , 96 h,

LC50 Bluegill sunfish, 1.1 mg/l

Toxicity to aquatic invertebrates:

EC50 Daphnia magna (Water flea), 0.47 mg/l , 48 h

Toxicity to algae : ERC50 Pseudokirchneriella subcapitata (green algae), 0.26mg/l,

EBC50 Pseudokirchneriella subcapitata (green algae), 0.23mg/l

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

SAFETY DATA SHEET

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

Regulation: Not dangerous goods

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol(s) : N Dangerous for the environment

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

S-phrases(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 container to avoid environmental contamination. |

Special labelling of certain 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:

R23 Toxic by inhalation.

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.