

Section 6 of the Health and Safety at Work Act Additional Product Safety Information

This safety Data Sheet does not form part of the label approved under the Control of Pesticides Act 1986. Following the instructions on the pesticide Product Label for the specified uses should ensure that the product is used safely and efficaciously for those uses.

SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE/ PREPARATION AND COMPANY

Product Name PANAMA
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Product Denomination	CAS Number	Hazard Symbols	Risk Phrases (R)	Concentration (% w/w)
Azoxystrobin	131860-33-8	T, N	R23,R50/53	50% w/w
Sulphuric Acid, mono- C12-18-alkyl esters, sodium salts	68955-19-1	Xi	R36/38	≥1 - ≤ 5 % w/w
Naphthalenesulphonic acid, sodium salt, polymer with formaldehyde	9008-63-3	Xi	R36/38	≥5 - ≤ 10% 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.
May form flammable dust-air mixture.

4. FIRST AID MEASURES

General advice: Have the product container, label or Material Safety Data Sheet with you when calling the emergency number, a poison control centre or physician, or going for treatment.
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

Extinguishing media - small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires: Use alcohol-resistant foam or 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: Wear full protective clothing and 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. Avoid dust formation.

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13). Do not create a powder cloud by using a brush or compressed air. Clean contaminated surface thoroughly.

Additional advice: If the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE

HANDLING

Advice on safe handling: This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents. In general personnel handling this material and all conducting equipment should be electrically earthed or grounded. Bulk bags (FIBC) used to contain this material should be Type B, Type C or Type D. Type C bags must be electrically grounded or earthed before powder is charged to or discharged from the bag. If metal or fibre drums are used to contain this material, make certain the metal parts are bonded to the filling equipment and grounded. This material could become charged under certain conditions such as pneumatic conveying.

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: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

Other data: Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	Exposure Limit(s)	Value Type	Source
Azoxystrobin	2mg/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 dust is 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

When using this product refer to the label for details. In all other cases, use the following 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.

Occupational exposure limits

Hazardous ingredient: Azoxystrobin Syngenta Standard 8 hr TWA 2 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Granules.
Colour:	Light brown.
Odour:	None.
Minimum Ignition Energy:	3 .. 10 mJ
Dust explosion Class:	Forms flammable dust clouds.
pH-value:	6.5 at 1% w/v
Oxidising properties:	Not oxidising.
Explosive properties:	Not explosive.
Density:	0.54 g/ml
Water solubility:	Miscible.

10. STABILITY AND REACTIVITY

Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapours.

Hazardous reactions: None known. Hazardous polymerisation does not occur. Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (LETHAL DOSES)

LD50 Oral rat: > 5000 mg/kg

LD50 Dermal rat: > 2000 mg/kg

LC50 Inhalation rat: > 4.67 mg/l 4 hours

ACUTE TOXICITY (IRRITATION, SENSITISATION, ETC.)

Eye Irritation rabbit: Moderate irritant.

Skin Irritation rabbit: Slight.

Sensitisation guinea pig: Not a sensitizer in animal tests.

LONG TERM TOXICITY

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

12. ECOLOGICAL INFORMATION

ELIMINATION INFORMATION (PERSISTENCE AND DEGRADATION)

Azoxystrobin has medium potential for bioaccumulation, is stable in water, is not persistent in soil and has low to very high mobility in soil.

ECOTOXICITY

Toxicity to fish: LC50 96 hours Rainbow trout: 1.1 mg/l

Toxicity to fish: LC50 96 hours Bluegill sunfish: 2.4 mg/l

Toxicity to aquatic invertebrates: EC50 48 hours Daphnia magna (water flea): 1.8 µg/l

Toxicity to algae: EbC50 72 hours Pseudokirchneriella subcapitata (green algae): 120 µg/l

Toxicity to algae: ErC50 72 hours Pseudokirchneriella subcapitata (green algae): 950 µg/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

Rail / Road (RID / ADR)

Class	UN number	Packaging group
9	3077	III

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (AZOXYSTROBIN 50%)

Sea (IMDG-Code)

Class	UN number	Packaging group
9	3077	III

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (AZOXYSTROBIN 50%)

Marine pollutant Yes

Air (ICAO / IATA)

Class	UN number	Packaging group
9	3077	III

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (AZOXYSTROBIN 50%)

15. REGULATORY INFORMATION

Hazard Symbol/ Classification	N	DANGEROUS FOR THE ENVIRONMENT
Risk Phrases (R)	50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Safety Phrases (S)	2	Keep out of the reach of children
	13	Keep away from food, drink and animal feeding stuffs
	20/21	When using do not eat, drink or smoke
	35	This material and its container must be disposed of in a safe way
	57	Use appropriate containment to avoid environmental contamination
Special label		To avoid risks to man and the environment, comply with the instructions for use.

Note: The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

16. OTHER INFORMATION

Always read the label. Use pesticides safely.

Product registration number: MAPP 13950

Text of R phrases mentioned in Section 2:

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.

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.