

Preparation Date 21-Sep-2016

Revision Date 29-Aug-2016

Revision Number:01

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OFTHE COMPANY/UNDERTAKING

Product Identifier			
Product Description	Azoxystrobin 50 + Mancozeb 700 g/kg WG		
Other means of Identification			
UN-No	UN3077		
Recommended use of the chen	nical and restriction on use		
Recommended use	Fungicide		
Uses advised against	Activities contrary to label recommendation		
Details of the Supplier of the Safety Data Sheet			
Supplier Address			
UPL Limited Uniphos House, Madhu Park, Khar (W), Mumbai, India Tel: +91-(022)- 2646-8000			
E-mail address	info.in@uniphos.com		
Emergency Telephone Number			
Company Phone Number Emergency telephone number	+91-(022)- 2646-8000 +91- (02645) 226011 to 226015		
	2. Hazard Identification		
<u>Classification</u>			
Reproductive toxicity Aquatic Acute Hazard Aquatic Chronic Hazard	Category 2 - (H361d) Category 2 - (H401) Category 2 - (H411)		
Label elements			

Signal word

Warning

Hazard StatementsH361- Suspected of damaging the unborn child.H401 - Toxic to aquatic life.H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements



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Prevention

P201 Obtain special instruction before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.

Response

P308+P313 IF exposed or concerned: Get medical advice/attention. **P391** Collect Spillage.

Storage P405 Store locked up.

Prevention

P501 Dispose of contents/container to an approved waste disposal plant.

Other Information

No other hazards known.

3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %
Mancozeb	8018-01-7	70
Azoxystrobin	131860-33-8	5

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First aid measures

First-aid measures

Eye contact	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.
Skin contact	Remove contaminated clothing and shoes immediately, then wash with plenty of water. Clean contaminated clothing and shoes before re-use or discard if they cannot be thoroughly cleaned. If skin irritation or rash develops, get medical attention.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting unless told by physician. If vomiting occurs ensure patient can breathe. Get medical attention.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and Effects The most important known symptoms and effects are described in the labelling (See section 2) and/or in section 11.

Indication of immediate medical attention and special treatment needed

Notes to physician Treat symptomatically and supportively.



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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing mediaCO2, Dry chemical. Water spray or fog.Unsuitable extinguishing mediaDo not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture

Special HazardThermal decomposition can lead to release of toxic gases and vapor.Hazardous combustion productsCarbon disulphide, Carbon oxides, Nitrogen Oxides(NOx), Sulphur Oxides, Hydrogen

Protective equipment and precautions for firefighters

sulphide

Wear self-contained breathing apparatus and protective suit. Use standard firefighting procedures and consider the hazards of involved material.

	6. Accidental release measures
Personal precautions, protective	equipment and emergency procedures
Personal Precautions	Do not breath dust/mist. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin and eyes. Use personal protective equipment.
Environmental precautions	Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Keep material out of lakes, streams, ponds and sewer drains. Dike to confine spill and absorb with an absorbant such as clay, sand or soil. Local authorities should be advised if significant spillages cannot be contained.
Methods and material for contain	ment and cleaning up
Methods for Clean-Up	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet- brushing and place in container for disposal according to local regulations (see section 13).
Reference to other sections	Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.
	7. Handling and Storage
Precautions for safe handling	
Handling	KEEP OUT OF REACH OF CHILDREN. Wear suitable personal Protective Equipment

And ling KEEP OUT OF REACH OF CHILDREN. Wear suitable personal Protective Equipment when handling and spraying. Avoid contact with skin and eyes. Avoid breathing dust/mist. Ensure adequate ventilation. While using do not eat drink or smoke. Wash thoroughly after handling. Empty containers may contain hazardous residues. Handle in accordance with good industrial and safety practice.

Conditions for safe storage, including any incompatibilities

StorageStore in original container. Keep containers tightly closed in a cool, well-ventilated place.Store locked up. Do not store material near food, feed or drinking water.



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Incompatible materials	Oxidizing agents, acids, polar so	lvent such as alcohol	
	8. Exposure Controls/Per	sonal Protectio	n
Exposure Guideline	Apply technical measures to comply with the occupational exposure limit.		
	Chemical name	Qubec	France
	Mancozeb	5mg/m ³	5 mg/m ³
Engineering controls <u>Personal protective equipment</u> Eye/Face Protection		tion, or other engineer osure limits. If exposure ceptable level. e is potential for eye co	ing controls to maintain airborne e limits have not been established, ontact have eye flushing
Skin/Hand protection	Wear impervious protective clothing appropriate, to prevent skin contact.	including boots, glove	es, apron or coveralls, as
Respiratory protection	When workers are facing concentrate appropriate certified respirators.	ions above the exposu	ire limit they must use
Environmental exposure controls	Local authorities should be advised	if significant spillages o	cannot be contained

General hygiene considerations

Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. Physical and Chemical Properties Information on basic physical and chemical properties

Granules

Greyish yellow granules

No information available

non-characteristic

Greyish yellow

Appearance Physical state Odor Color Odor threshold

VALUES **Property** pН 7.02 at 21°C Melting point/freezing point No information available **Boiling Point/Range** Not applicable No information available **Flash Point** flammability (solid, gas) Non-flammable Upper/lower flammability or Non-explosive **Explosive limit** No information available **Bulk Density** 0.7115 g/ml Vapor density No information available Vapor pressure No information available Water solubility Dispersible **Solubility in Other Solvents** No information available Partition coefficient: n-octanol/water No information available Autoignition temperature No information available decomposition temperature No information available Viscosity Not applicable Surface tension 44.86 mN/m

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Remarks/ Method



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Reactivity

Stable under normal temperatures and pressures.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reaction

None under normal processing.

Conditions to avoid

Avoid dust information. Incompatible material, Excessive heat and open flame.

Incompatible Materials

Oxidizing agents, acids, polar solvent such as alcohol

Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Hazardous decomposition products formed under fire conditions: Oxides of Carbon Oxides of Nitrogen Oxides of sulphur Hydrogen Sulphide

11. Toxicological Information

Information on Toxicological Effects

LD50 Oral: >5000 mg/kg LD50 Dermal: >2000 mg/kg LC50 Inhalation: 5.218 mg/l (Maximum breathing zone concentration - No mortality)

Local effect

Inhalation Eye contact Skin contact Ingestion May be harmful if inhaled Causes mild eye irritation. Causes mild skin irritation. May be harmful if swallowed

Chronic toxicity

Skin Corrosion/Irritation Eye damage/irritation Sensitization Mutagenic effects Carcinogenic effects Reproductive effects STOT - Single Exposure STOT - repeated exposure

Causes mild skin irritation. Causes slight eye irritation. No additional information available. No additional information available. No additional information available. Suspected of damaging the unborn child No additional information available. No additional information available.



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Aspiration hazard

No additional information available.

12. Ecological Information

Ecotoxicity

Toxic to aquatic life with long lasting effect.

LC50/96hr/Fish= 2.47 mg/l (Cyprinus Carpio) EC50/48hr/Daphnia Magna = 2.02 mg/l ErC50/72hr/Algae = 6.72 mg/l (Pseudokirchneriella Subcapitata)

Persistence and Degradability

No information available.

Bioaccumulative Potential

No information available.

Other Adverse Effects

No information available.

13. Disposal Considerations		
Waste Treatment Methods		
Waste Disposal Method	Dispose of in accordance with applicable Federal, State, local laws and regulations	
Contaminated packaging	Empty containers should be taken for local recycling, recovery or waste disposal. Do not re-use the container. Dispose of empty containers in a sanitary landfill or incineration so as to avoid environmental or water pollution.	

14. Transport Information

IMDG/IMO	
UN-No	UN 3077
Proper Shipping name	Environmentally hazardous substance, solid, n.o.s. (Mancozeb, Azoxystrobin)
Hazard class	9
Packing group	III
EMS No.	F-A,S-F
Marine pollutant	Yes
IATA/ICAO	
UN-No	UN 3077
Proper Shipping name	Environmentally hazardous substance, solid, n.o.s. (Mancozeb, Azoxystrobin)
Hazard class	9
Packing group	III
Environmental Hazard	Yes

15. Regulatory Information

International Inventories

TSCA EINECS ELINCS	Complies Complies Complies
DSL/NDSL	Complies
PICCS	Complies



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Safety Data Sheet

ENCS IENCS		
AICS		
KECL		

Legend

- :- Not Listed, Not determined
 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 ALCS - Australian Inventory of Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances

Complies

Complies

Complies

Complies

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16. Other Information

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Revision date	
Revision Summary	

21-Sep-2016 29-Aug-2016 Update to GHS Format

Disclaimer

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End of Safety Data Sheet