MOGUL®

Date of Issue: 03rd October 2017

Date of Previous Issue: 12th September 2012



1. Identification of the Substance/Mixture and Supplier.

Mogul

Product name:

Other product names:

Application: A combination fungicide for control of number of diseases in

cereals and ryegrass.

EPA approval: HSR007993.

Company: Bayer New Zealand Limited,

3 Argus Place,

Hillcrest,

North Shore 0627 New Zealand. 0800 428 246 09 441 8645

Emergency telephone: 0800 734 607 (24hr)

2. Hazards Identification.

3.

Telephone:

Facsimile:

Hazard classification: Classified as hazardous according to the criteria in the

Hazardous Substances (Minimum Degrees of Hazard)

Regulations 2001.

Classification and type: HSNO Class*

6.1E, 6.4A, 6.9B, 9.1B May be harmful if swallowed. Harmful – may cause eye irritation.

Harmful – presumed to/may cause organ damage from repeated

oral exposure at high doses.

Toxic to aquatic organisms with long-lasting effects.

Risk & Safety Phrases: R36, R40, R51

4. Composition/Information on Ingredients.

Chemical identity of ingredients	Mixture:		
	Ingredient	CAS No.	Content (%w/v)
	Fluoxastrobin	193740-76-0	4.40
	Prothioconazole	178928-70-6	8.80
	2-Ethylhexanol		
	propylene ethyleneglycol	64366-70-7	15.00
	ether		
	Arylethylphenylpolyglycol		5.00
	ether		
	Citric acid	77-92-9	1.00
		201-069-1	
	Gamma-Butyrolactone	96-48-0	40.70
		202-509-5	

MOGUL®

Date of Issue: 03rd October 2017

Date of Previous Issue: 12th September 2012



5. First Aid Measures.

General information: Contaminated clothing and shoes must be removed immediately.

Skin contact: After contact with skin, wash immediately with plenty of water and

soap.

Eye contact: Contamination of the eyes must be treated by thorough irrigation

with water, with the eyelids held open. A doctor (or eye specialist)

should be consulted immediately.

Ingestion: Do not induce vomiting. Wash out mouth and water. Call a doctor

immediately.

Inhalation: Bring casualties into the fresh air. Call a doctor immediately.

Further information: Contact the National Poisons and Hazardous Chemicals

Information centre in Dunedin, PO Box 913, Dunedin. Phone

0800 764 766, 0800 POISON.

6. Fire-Fighting Measures.

Extinguishing media and Water spray,

methods: Carbon dioxide (CO2)

Foam, Sand

Specific hazards during fire: Nitrogen oxides (NOx)

Sulphur dioxide (SO2) Carbon monoxide (CO) Hydrogen chloride (HCI)

Hydrogen cyanide (hydrocyanic acid)

Recommended protective

clothing:

Fire fighters must wear self contained breathing apparatus.

7. Accidental Release Measures.

Personal Precautions: Ensure suitable personal protection during removal of spillages.

This means wearing eye protection, chemically resistant gloves.

boots and overalls.

Environmental Precautions: Washings must be prevented from entering surface water drains

or waterways.

Procedure for spill: Keep all bystanders away.

Wear goggles, half face-piece respirator with combined dust and

vapour cartridge, full length clothing and PVC gloves.

MOGUL®

Date of Issue: 03rd October 2017

Date of Previous Issue: 12th September 2012



Contaminated material must be disposed of in accordance with all local authority requirements.

a. For quantities up to 50L of product bury in a secure approved landfill site.

b. For quantities greater than 50L seek advice from the manufacturer (use emergency contact number)

c. before attempting disposal. Contain in a secure location until disposal method is established.

Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.

Procedure for Disposal:

a) Triple rinsing or preferably pressure rinsing containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site.

b) Empty containers: Take to an Agrecovery collection site.

c) Product or unused spray mix should be disposed of according

to label instructions.

8. Handling and Storage.

Handling: Storage:

Use only in area provided with appropriate exhaust ventilation. Store in a place accessible by authorized persons only. Keep containers tightly closed in a cool, well-ventilated place. Storage temperature -10 - >40°C.

9. Exposure Control/Personal Protection

Engineering measures:

Use in well ventilated areas.

Respiratory protection:

Where insufficient ventilation, use suitable respiratory protection

solvent-resistant gloves.

Eye protection:

Hand protection:

Chemical goggles/face protection.

Other protective equipment:

Wear suitable protective clothing.

Respiratory protection:

Full dust mask (Class P2).

Hygiene measures:

Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hand before breaks and at the end of work. Change contaminated protective clothing. Keep away

from food, drinks and tobacco.

MOGUL®

Date of Issue: 03rd October 2017

Date of Previous Issue: 12th September 2012



10. Physical and Chemical Properties

Appearance

Form: Liquid, clear

Colour: Tan
Odour: Aromatic

Safety data:

pH: 4-5 @ 1% Flash point: $96^{\circ}C$

Ignition temperature 405°C

Density Ca. 1.13g/cm³ at 20°C

Water solubility Emulsifiable
Viscosity, dynamic 58.5mPa at 20°C
Viscosity, kinematic 517mm2/s at 20°C
Surface tension 32.13 mN/m

Surface tension 32.13 mN/m Explosivity Not explosive

11. Stability and Reactivity

Conditions to avoid: Extremes of temperature and direct sunlight.

Materials to avoid None

Hazardous reactions: No hazardous reactions when stored and handled according to

prescribed instructions.

Stable under recommended storage conditions.

12. Toxicological Information

Acute oral toxicity: LD_{50} : (rat) >2,500mg/kg

Acute inhalation toxicity: LC₅₀: (rat) >5077mg/l

Exposure time: 4h

Acute Dermal Toxicity LD₅₀(rat) >4,000mg/kg

Skin irritation: Non-irritant (rabbit)

Eye irritation: Non-irritant (rabbit)

Sensitization Non-sensitizing (guinea pig)

MOGUL®

Date of Issue: 03rd October 2017

Date of Previous Issue: 12th September 2012



13. Ecological Information	
Acute fish toxicity:	LC50: 3.29mg/l Rainbow trout (<i>Oncorhynchus mykiss</i>) Exposure time: 96h
Toxicity for daphnia:	EC50: 6.9mg/l Water flea : (Daphnia magna) Exposure time: 48 h
Toxicity to algae:	EC50 13mg/l (<i>Pseudokirchneriella subcapitata</i>) Growth rate Exposure time: (77h)
14. Disposal Consideration	ns.
Disposal:	Ensure product is not discharged to the environment. For disposal use a certified waste disposal company.
Empty container precautions:	After final product withdrawal, all residues must be removed from containers (drip free, powder free or paste free). Once the product residues adhering to the walls of the containers have been rendered harmless, the product and hazard labels must be invalidated. Take to an Agrecovery collection site.
15. Transportation Informa	ation.
Rail/Road (RID/ADR)	UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (fluoxastrobin, prothioconazole solution), Class 9, Packing Group III, Hazchem 3Z.
Sea (IMDG-Code)	UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (fluoxastrobin, prothioconazole solution), Class 9, Packing Group III, Hazchem 3Z. Marine Pollutant.
Air (ICAO/IATA)	
	UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (fluoxastrobin, prothioconazole solution), Class 9, Packing Group III, Hazchem 3Z.
16. Regulatory Information	ղ.
HSNO Approval Number:	HSR007993
HSNO Controls(inc. Tracking	g): See <u>www.epa.govt.nz</u> for controls.

Approved Handlers required at time of use.

See www.foodsafety.govt.nz for registration conditions.

P8203

Page 5 of 6

Approved Handlers required:

ACVM Registration:

ACVM Controls:

MOGUL®

Date of Issue: 03rd October 2017

Date of Previous Issue: 12th September 2012



17. Other Information:

- 6.1E May be harmful if swallowed.
- 6.4A Harmful may cause eye irritation.
- 6.9B Harmful presumed to/may cause organ damage from repeated oral exposure at high doses.
- 9.1B Toxic to aquatic organisms with long-lasting effects.
- R36 Irritating to eyes.
- R40 Limited evidence of carcinogenic effect.
- R51 Toxic to aquatic organisms.
- ® Registered trademark of the Bayer Group.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.