

1. Identification of the Substance/Mixture and Supplier.			
Product name:	Mesurool FS		
Other names:	Mesurool FS500		
Recommended Use:	A seed treatment for repelling birds in maize, sweetcorn and sorghum.		
Company details:	Bayer New Zealand Limited, 3 Argus Place, Glenfield, Auckland, New Zealand.		
Telephone:	0800 428 246		
Facsimile:	09 441 8645		
Emergency telephone:	0800 734 607 Orica SH&E Shared services (24hr)		
2. Hazards Identification.			
Hazard classification:	Classified as not hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.		
Classification and type:	HSNO Class[†] 6.1C, 6.5B, 6.9B, 9.1A, 9.2D, 9.3A, 9.4A May be harmful if swallowed, inhaled or absorbed through the skin. Harmful – may cause sensitisation from prolonged skin contact. Harmful – presumed to/may cause organ damage from repeated oral exposure at high doses. Toxic to aquatic organisms. Harmful to the soil environment. Very toxic to terrestrial vertebrates. Very toxic to terrestrial invertebrates.		
Risk & Safety Phrases:	R24/25, R40, R43, R50, R55, R57		
3. Composition/Information on Ingredients.			
Chemical Identity of Ingredients:	Mixture:		
	Ingredient	CAS No.	Content (%w/v)
	methiocarb (mercaptodimethur (iso))	2032-65-7 217-991-2	43.90%
	Citric acid	77-92-9 201-069-1	1.0%

4. First Aid Measures:	
Description of necessary first aid measures:	In case of poisoning by any exposure route contact the National Poisons and Hazardous Chemicals Information Centre, PO Box 913, Dunedin. Phone 0800 764 766, 0800 POISON.
Workplace facilities:	No specific facilities required. Standard emergency equipment must be available.
Hygiene Practices:	Avoid contact with skin and eyes and inhalation of concentration or spray mist. When mixing or applying, wear protective clothing, including face shield, impervious gloves and footwear. If clothing becomes contaminated with product, remove clothing immediately. DO NOT eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work.
Poisoning symptoms:	No case of human poisoning due to this product is on record.
Ingestion:	Wash out mouth with water. Induce vomiting only; <ol style="list-style-type: none"> 1. If patient is fully conscious. 2. Medical aid is not readily available. 3. A significant amount (more than a mouthful) has been ingested. 4. Time since ingestion is less than 1 hour, (vomit should not get into the respiratory tract). Call a doctor immediately.
Eye:	If product gets in eyes wash it out immediately with water for at least 15 minutes and consult a physician.
Skin:	If skin contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water.
5. Fire-Fighting Measures.	
Fire Hazard Properties:	In the event of fire, the following can be released: Hydrogen cyanide (hydrocyanic acid) Carbon monoxide (CO) Methyl isocyanate Sulphur dioxide (SO ₂) Nitrous gases (NO _x)
Extinguishing media:	Water spray, carbon dioxide (CO ₂), foam and sand.

Recommended Protective clothing:	When fighting a major fire wear an air-supplied respirator. Wear protective equipment.
6. Accidental Release Measures.	
Personal Precautions:	Emergency Procedures: 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. Contaminated material must be disposed of in accordance with all local authority requirements. <ul style="list-style-type: none"> • For quantities up to 50L of product bury in a secure approved landfill site. • For quantities greater than 50L seek advice from the manufacturer (use emergency contact number) 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) Burning of empty containers if circumstances, especially wind direction, permit is an alternative method. Do not burn unless in a suitable incinerator. c) Product or unused spray mix should be disposed of according to label instructions.
7. Handling and Storage.	
Handling Practices:	Avoid contact with skin and eyes and inhalation of concentrate or spray mist. When using, do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.
Conditions for Safe Storage and Store Sire Requirements:	Store in a cool, dry, well ventilated place and protect from sunlight. Storage temperature - 10°C - <50°C.
Packaging:	Store in original container, tightly closed, away from foodstuffs.

8. Exposure Control/Personal Protection	
Engineering measures:	Use in well ventilated areas.
Respiratory protection:	Where insufficient ventilation, use suitable respiratory protection.
Hand protection:	Wear suitable protective gloves (e.g. Polyvinyl chloride – PVC). After contamination with product change the gloves immediately.
Eye protection:	Chemical goggles/face protection.
Other protective equipment:	Wear suitable protective clothing.
Hygiene measures:	Avoid inhaling aerosols and vapours. 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.
9. Physical and Chemical Properties	
Form:	Suspension
Colour:	White
Odour:	Slight original odour
Density:	Ca. 1.14g/cm ³ at 20°C
Specific gravity:	Not known
Solubility in water:	Miscible
pH:	4.0 – 5.2 (undiluted)
Flash point:	> 100°C (DIN 51758)
Boiling point:	Not known
Viscosity:	Not known
10. Stability and Reactivity	
Stability of the Substance:	Stable under standard conditions.
Conditions to Avoid:	Not applicable
Materials to Avoid:	Not applicable
Hazardous Reactions:	Not applicable

11. Toxicological Information	
Acute oral toxicity:	LD ₅₀ : rat >25 - >50mg/kg
Acute dermal toxicity:	LD ₅₀ : rat >5000mg/kg
Acute inhalation	LC ₅₀ : rat >0.4mg/L (4h) (as aerosol)
Skin irritation:	Non-irritant (rabbit)
Eye irritation:	Non-irritant (rabbit)
Other information	
12. Ecological Information	
Acute fish toxicity:	<u>Methiocarb</u> LC ₅₀ : 0.65mg/l (96h); bluegill sunfish(<i>Lepomis macrochirus</i>)
Toxicity for Daphnia:	EC ₅₀ : 0.0077mg/l (48h); Water flea (<i>Daphnia magna</i>)
Toxicity for Algae:	IC ₅₀ : 2.2mg/l ; (<i>Desmodesmus subspicatus</i>) Growth rate exposure time: 72h
13. Disposal Considerations.	
Product Disposal:	Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.
Container Disposal:	Triple rinse the empty container adding rinseate to the spray tank. Recycle if possible. If allowed under local authority, burn if circumstances, especially wind direction permit, otherwise crush and bury in an approved local authority facility. Do not use container for any other purpose.
14. Transportation Information.	
Rail/Road (RID/ADR)	UN 2992 Carbamate Pesticide, Liquid, Toxic, (mercaptodimethur solution) Class 6, Packing Group: II Hazchem 2X.
Sea (IMDG-Code)	UN 2992 Carbamate Pesticide, Liquid, Toxic, (mercaptodimethur solution) Class 6, Packing Group: II Hazchem 2X. Marine Pollutant.
Air (ICAO/IATA)	UN 2992 Carbamate Pesticide, Liquid, Toxic, (mercaptodimethur solution) Class 6, Packing Group: II Hazchem 2X.

15. Regulatory Information.

HSNO Approval Number:	HSR000728
HSNO Controls (inc. Tracking):	See www.ermanz.govt.nz for controls.
Approved Handlers required:	Approved Handlers required at time of use.
ACVM Registration:	P 6002
ACVM Controls:	See www.nzfsa.govt.nz/acvm for registration conditions.

16. Other Information.

6.1C May be harmful if swallowed, inhaled or absorbed through the skin.
 6.5B Harmful – may cause sensitisation from prolonged skin contact.
 6.9B Harmful – presumed to/may cause organ damage from repeated oral exposure at high doses.
 9.1A Toxic to aquatic organisms.
 9.2D Harmful to the soil environment.
 9.3A Very toxic to terrestrial vertebrates.
 9.4A Very toxic to terrestrial invertebrates.

R24/25 Toxic in contact with skin and if swallowed.
 R40 Limited evidence of a carcinogenic effect.
 R43 May cause sensitisation by skin contact.
 R50 Very toxic to aquatic organisms.
 R55 Toxic to fauna.
 R57 Toxic to bees.

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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.