

**Monceren® IM DS**

Date of Issue: 22 October 2014

Date of Previous Issue: 12 September 2012

Spec No. 102000007045

1. Identification of the Substance/Mixture and Supplier.

Product name:	Monceren IM DS
Other names:	Monceren IM DS 13.3 Imazalil sulfate + Pencycuron DS 13.3 (8 + 125 g/kg)
Application:	Fungicide; Seed treatment
EPA approval:	HSR000589
Company:	Bayer New Zealand Limited, 3 Argus Place, Hillcrest, Auckland 0627, 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 hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
Classification and type:	HSNO Class 6.9B Warning – may cause organ damage from repeated oral exposure at high doses. 9.1B Toxic to aquatic organisms with long-lasting effects.

3. Composition/Information on Ingredients.

Chemical nature Powder for dry seed treatment (DS) Pencycuron 125 g/kg

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Hazardous components

Chemical Name	CAS-No. / EC-No.	Concentration [%]
Pencycuron	66063-05-6 266-096-3	12.50
Kaolin	1332-58-7 310-194-1	>1.00
Talc	14807-96-6 238-877-9	>1.00
Calcium carbonate	1317-65-3 215-279-6	>1.00

4. First Aid Measures.

General advice:	Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.
Inhalation:	Move to fresh air. Keep patient warm and at rest. Call a doctor or poison control centre immediately.
Skin contact:	Wash off thoroughly with plenty of soap and water. If symptoms develop and persist, call a doctor.
Eye contact:	Rinse immediately with plenty of water and seek medical advice. Call a doctor or poison control centre immediately.
Ingestion:	Rinse mouth. Do NOT induce vomiting. Call a doctor or poison control centre immediately.
Most important symptoms and effects, both acute and delayed:	No symptoms known or expected.
Treatment:	Treat symptomatically.
Further information:	Contact the National Poisons and Hazardous Chemicals Information centre in Dunedin, PO Box 913, Dunedin. Phone 0800 POISON (0800 764 766).

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5. Fire-Fighting Measures.

Suitable extinguishing media:	Water spray, carbon dioxide (CO ₂), foam, sand.
Special hazards arising from the substance or mixture:	In the event of fire the following may be released: Hydrogen chloride (HCl) Hydrogen cyanide (hydrocyanic acid) Carbon monoxide (CO) Nitrogen oxides (NO _x)
Special protective equipment for fire-fighters:	In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.
Further information:	Contain the spread of the fire-fighting media. Do not allow run-off from fire-fighting to enter drains or water courses.

6. Accidental Release Measures.

Personal precautions:	Avoid contact with spilled product or contaminated surfaces. Remove all sources of ignition. Use personal protective equipment.
Environmental precautions:	Do not allow to get into surface water, drains and ground water.
Methods for cleaning up:	Use mechanical handling equipment. Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.
Additional advice:	Information regarding safe handling: see section 7. Information regarding personal protective equipment: see section 8. Information regarding waste disposal, see section 13.

7. Handling and Storage.

Handling:	Advice on safe handling Use only in area provided with appropriate exhaust ventilation. Advice on protection against fire and explosion Dust may form explosive mixture in air. Keep away from heat and sources of ignition.
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Storage:	<p>Hygiene measures</p> <p>Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).</p> <p>Requirements for storage areas and containers</p> <p>Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from direct sunlight</p> <p>Advice on common storage</p> <p>Keep away from food, drink and animal feeding stuffs.</p> <p>Suitable materials</p> <p>Polyethylene film within an outer package</p> <p>Specific end uses</p> <p>Refer to the label and/or leaflet.</p>
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8. Exposure Control/Personal Protection.

Respiratory protection:	<p>Components with workplace control parameters</p> <table border="1"> <thead> <tr> <th>Components</th> <th>CAS-No.</th> <th>Control parameters</th> <th>Update</th> <th>Basis</th> </tr> </thead> <tbody> <tr> <td>Pencycuron</td> <td>66063-05-6</td> <td>5 mg/m³ (TWA)</td> <td></td> <td>OES BCS*</td> </tr> </tbody> </table> <p>*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"</p> <p>Personal protect equipment:</p> <p>In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.</p> <p>Wear respirator with a particle filter mask (protection factor 4) conforming to European norm EN149FFP1 or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source, e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.</p>	Components	CAS-No.	Control parameters	Update	Basis	Pencycuron	66063-05-6	5 mg/m ³ (TWA)		OES BCS*
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Hand protection:	Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0.40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.
Eye protection:	Wear goggles conforming to EN166 (Field of Use 5 or equivalent).
Skin and body protection:	Wear standard coverall and Category 3 Type 5 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

9. Physical and Chemical Properties.

Appearance Form: Colour: Odour:	Powder Red Weak, characteristic
Safety Data: Dust explosion class:	Capable of causing a dust explosion (modified Hartmann tube)
Water solubility:	Not dispersible
Log Pow (Partition coefficient: n-octanol/water)	Imazalil sulphate – 3.31
Impact sensitivity:	Not impact sensitive
Other information:	Further safety related physical-chemical data are not known.

10. Stability and Reactivity.

Reactivity:	Stable under normal conditions.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No hazardous reactions when stored and handled according to prescribed instructions.

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Conditions to avoid:	Extremes of temperature and direct sunlight.
Incompatible materials:	Acids. Store only in the original container.
Hazardous decomposition products:	No decomposition products expected under normal conditions of use.
11. Toxicological Information.	
Acute oral toxicity:	LD50 (rat) > 5,000 mg/kg
Acute inhalation toxicity:	LC50 (rat) > 0.401 mg/L Highest attainable concentration. Determined in the form of a respirable fine dust.
Acute Dermal toxicity	LD50 (rat) > 5,000 mg/kg
Skin irritation:	No skin irritation (rabbit)
Eye irritation:	Slight irritant effect (rabbit) – does not trigger HSNO classification
Assessment repeated dose toxicity:	Pencycuron did not cause specific target organ toxicity in experimental animal studies. Imazalil sulphate did not cause specific target organ toxicity in experimental animal studies.
Assessment mutagenicity:	Pencycuron was not mutagenic or genotoxic in a battery of <i>in vitro</i> and <i>in vivo</i> tests. Imazalil sulphate was not mutagenic or genotoxic in a battery of <i>in vitro</i> and <i>in vivo</i> tests.
Assessment carcinogenicity	Pencycuron was not carcinogenic in lifetime feeding studies in rats and mice. Pencycuron was not carcinogenic in lifetime feeding studies in rats and mice. Imazalil sulphate was not carcinogenic in lifetime feeding studies in rats and mice.
Assessment toxicity to reproduction:	Pencycuron caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with pencycuron is related to parental toxicity. Imazalil sulphate did not cause reproductive toxicity in a two-generation study in rats.

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Assessment developmental toxicity:	Pencycuron did not cause developmental toxicity in rats and rabbits. Imazalil sulphate caused developmental toxicity only at dose levels toxic to the dams.
12. Ecological Information.	
Toxicity to fish:	LC50 (<i>Lepomis macrochirus</i> (Bluegill sunfish)) > 0.26 mg/L Exposure time: 96 h The value mentioned relates to the pencycuron.. No acute toxicity was observed at its limit of water solubility.
Toxicity to aquatic invertebrates:	EC50 (Water flea (<i>Daphnia magna</i>)) > 1 mg/L Exposure time: 48 h The value mentioned relates to the pencycuron EC50 (Water flea (<i>Daphnia magna</i>)) 3,5 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient imazalil.
Chronic toxicity to aquatic invertebrates:	<i>Daphnia</i> NOEC: 0.0992 mg/L Exposure time: 21 d The value mentioned relates to the pencycuron.
Toxicity to aquatic plants:	EC50 (<i>Desmodismus subspicatus</i>) > 1 mg/L Growth rate; Exposure time: 72 h The value mentioned relates to the pencycuron. No acute toxicity was observed at its limit of water solubility. EC50 (<i>Pseudokirchneriella subcapitata</i>) 0,87 mg/l Biomass; Exposure time: 72 h The value mentioned relates to the active ingredient imazalil.
Biodegradability:	Pencycuron: not rapidly biodegradable. Imazali sulphate: not rapidly biodegradable
Koc	Pencycuron: Koc: 5667 Imazalil sulphate: 4753
Bioaccumulation:	Pencycuron: Bioconcentration factor (BCF) 226 Does not bioaccumulate. Imazalil sulphate: Does not bioaccumulate
Mobility in soil:	Pencycuron: Immobile in soil Imazalil sulphate: Immobile in soil
Results of PBT and vPvB assessment:	Both active ingredients are not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

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Other adverse effects:	No other effects to be mentioned.
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:	Ensure container is completely empty. 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. Transport Information.	
Rail/Road (RID/ADR):	UN 3077 Environmentally Hazardous Substance, Solid, N.O.S. (Pencycuron Mixture), Class 9, Packing Group III, Hazchem Code 2Z.
Sea (IMDG-Code):	UN 3077 Environmentally Hazardous Substance, Solid, N.O.S. (Pencycuron Mixture), Class 9, Packing Group III, Hazchem Code 2Z.
Air (ICAO/IATA):	UN 3077 Environmentally Hazardous Substance, Solid, N.O.S. (Pencycuron Mixture), Class 9, Packing Group III, Hazchem Code 2Z.
15. Regulatory Information.	
HSNO Approval Number:	HSR000589
HSNO Controls (inc. Tracking):	See www.epa.govt.nz for controls.
ACVM Registration:	P5036
ACVM Controls:	See www.foodsafety.govt.nz for registration conditions.
16. Other Information.	
N/A	

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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.