

MATERIAL SAFETY DATA SHEET

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STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to criteria of Worksafe Australia.

COMPANY DETAILS:

Company: Aventis CropScience Pty Ltd A.B.N. 87 000 226 022
Address: 391 – 393 Tooronga Road, East Hawthorn, Victoria 3123
Telephone / Facsimile: (03) 9248 6888 / (03) 9248 6800
Website Address: www.aventis.com.au
Emergency Telephone Number: 1800 033 111 – Orica SH&E Shared Services

IDENTIFICATION

Product Name: **Diacon® S IGR Grain Protector**
Other Names: None
Manufacturer's Product Code: ZR 515, OMS 1697
SAP Product Code: 132764 (1 L); 132802 (20 L)
UN Number: Not applicable
Dangerous Goods Class and Subsidiary Risk: Not classified as dangerous goods for road and rail transport
Hazchem Code: Not applicable
Proper Shipping Name: Not applicable
Packaging Group: Not applicable
EPG: Not applicable
Chemical Family: Pheromone analogue
Poisons Schedule Number: 5
Use: A liquid insecticide concentrate for application to stored grain.

Physical Description/Properties

Appearance: Clear yellow liquid with sharp oily odour, not unpleasant
Boiling Point/Melting Point: 184°C (boiling point)
Vapour Pressure: Not available
Specific Gravity: 0.907 at 20° C
Flashpoint: 68°C (PMCC – ASTM D93)
Flammability Limits: Not determined
Solubility in Water: Emulsifies

Other Properties:

Autoignition temperate: Not available
Percent volatiles: ~75%

Ingredients:

Chemical Name:	CAS Number:	Proportion (g/L):
S-methoprene	[40596-69-8]	30
Hydrocarbon solvent	[64742-94-5]	723
Other ingredients	(not hazardous)	154

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HEALTH HAZARD INFORMATION

Health Effects:

Acute:

Swallowed: Based on animal studies, methoprene has a very low toxicity.

Eye: Mild irritant (from the solvent).

Skin: Mild irritant (from the solvent) and drying to the skin.

Inhaled: Solvent fumes may produce respiratory irritation and can result in headaches, dizziness and possibly nausea.

Chronic:

Repeated exposures may cause allergic disorders.

Animal studies:

In 2-year feeding trials, rats receiving 5,000 mg/kg diet and mice receiving 2,500 mg/kg diet showed no ill effects.
No teratogenic effects on rats at 1,000 mg/kg or on rabbits at 500 mg/kg.
No mutagenic effects on rats at 2,000 mg/kg.
No reproductive adverse effects in 3-generation reproduction studies on rats at 2,500 mg/kg diet.
Toxicity class: WHO Table 5; US EPA IV.

First Aid

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

Swallowed: Do not induce vomiting. Give a glass of water and seek medical advice.

Eye: Rinse immediately with plenty of water and seek medical advice.

Skin: Remove all contaminated clothing and shoes. Wash off skin immediately with soap and plenty of water. Seek medical advice if irritation persists. Launder contaminated clothing before re-use.

Inhaled: Remove person to fresh air. Seek medical advice.

First Aid Facilities: No specific facilities required.

Advice to Doctor: There is no specific antidote. Treat symptoms.

PRECAUTIONS FOR USE

Exposure Standards: No exposure standard has been assigned by the National Occupational Health and Safety Commission (Worksafe Australia). The manufacturer of the hydrocarbon solvent recommends a TWA exposure limit of 100 ppm.

Engineering Controls: Control process conditions to avoid contact. Use local exhaust ventilation during manufacture and use.

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Personal Protection:

Eyes:	Chemical goggles
Clothing:	Full-length work clothes
Gloves:	PVC or nitrile gloves
Respiratory:	Approved pesticides respirator to avoid inhaling vapour or spray mixture.
Other:	Avoid contact with skin and eyes. Do not eat, drink or smoke until after washing. Wash thoroughly after handling. After each day's use wash gloves, goggles and contaminated clothing.

Flammability: Diacon S IGR Grain Protector is a combustible liquid.

SAFE HANDLING INFORMATION

Storage and Transport:

Corrosivity Hazards: None known

Handling & Storage Precautions: Keep out of reach of children. Use only in a well-ventilated area. Store product in the closed, original container in a safe, cool, well-ventilated area. Protect from light. Do not apply in the presence of naked flames, hot surfaces or unprotected electrical equipment.

Transport: The product is not classified as Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Spills and Disposal:

Spillage or Leak Procedures: Wear suitable protective clothing and boots. Prevent spill from entering drains, sewers or any body of water. Contain and absorb with sand, earth or inert absorbent. Scoop or shovel into sealable containers for disposal.

Waste Disposal Methods: Follow Avcare guidelines. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for the purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Fire/Explosion Hazard:

Extinguishing Media: Water spray, carbon dioxide, foam, dry chemical. Do not use a water jet from a fire hose.

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Special Fire Fighting Procedures: This product is a combustible liquid. Heating/combustion will generate carbon monoxide and carbon dioxide as decomposition products. Fire fighters should wear full protective clothing and self-contained breathing apparatus. Do not release contaminated water into the environment. Keep intact containers cool by spraying with water.

Reactivity Hazards: Stable under normal conditions. No hazards are expected if the material is handled, stored and used according to instructions and government regulations. Not known to produce hazardous reactions.

OTHER INFORMATION:

Toxicology (methoprene):

• Oral LD ₅₀ (mg/kg)	>34,600	Species:	Rat
• Dermal LD ₅₀ (mg/kg)	3,500	Species:	Rabbit
• Inhalation LC ₅₀ (mg/L)	>210 (4 hour)	Species:	Rat
• Eye irritation	Non-irritating	Species:	Rabbit
• Skin irritation	Non-irritating	Species:	Rabbit
• Sensitisation	Not a sensitiser	Species:	Guinea pig

Environmental / Ecological Effects (methoprene): Eight-day dietary LC₅₀ for chickens >4,640 mg/kg.
LC₅₀ (96 h) for bluegill sunfish 4.6 mg/L; trout 4.4 mg/L
Non-toxic to adult bees; bee larvae are sensitive.
Daphnia EC₅₀ (48 h) 360 µg/L
Methoprene is rapidly degraded in soil.

Special Precautions / Comments: None

Data Sources/References: AgrEvo Pty. Ltd. – Product Safety Data

CONTACT POINT:

Emergency Contact Number: 1800 033 111 (Orica SH&E Shared Services)
Development Manager (Environmental Science): (03) 9248 6888

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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