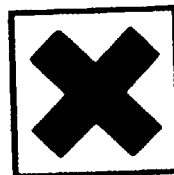


Product Safety Data Sheet

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

Product name: 'Holdfast' D
MAFF No: 07864

Company name: Miracle Professional
Salisbury House
Weyside Park
Catteshall Lane
Godalming
Surrey GU7 1XE



HARMFUL

Phone number: 01483 410210

Emergency phone: 01865 407333

2. COMPOSITION/INFORMATION ON INGREDIENTS

A plant growth regulator.

A suspension concentrate containing 250 g/l paclobutrazol and 25 g/l dicamba.

Hazardous ingredient(s)	CAS No.	g/l	Symbol	R Phrases
Paclobutrazol	076738-62-0	250	Xn, N	R20/22 R36 R51/53
Salts of dicamba	10007-85-9	25	Xn	R20/21/22

3. HAZARDS IDENTIFICATION

Low toxicity under normal conditions of handling and use.

4. FIRST-AID MEASURES

Inhalation Remove patient from exposure. keep warm and at rest.

Obtain medical attention as a precaution.

Skin Contact Take off immediately all contaminated clothing. Wash skin immediately with water, followed by soap and water. Contaminated clothing should be laundered before re-use. Seek medical attention if irritation persists.

Eye Contact Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.

Ingestion If swallowed seek medical advice immediately and show the container, label or this Data Sheet, if possible.

Do not induce vomiting.

Medical Advice: Symptomatic treatment and supportive therapy as indicated.

5. FIRE-FIGHTING MEASURES

Keep fire exposed containers cool by spraying with water.

Extinguishing media

Small fires: use foam, carbon dioxide or dry powder extinguishant.

Large fires: use foam or water-fog; avoid use of water jet. Contain run-off water with, for example, temporary earth barriers.

Protective Equipment:

Self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and coveralls.

Clean up methods: Absorb spillages onto sand, earth or any suitable absorbent material. Transfer to a container for disposal.

Wash the spillage area with water. Washings must be prevented from entering surface water drains.

Spillages or uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.

7. HANDLING AND STORAGE

7.1 Handling

Read the label before use.

Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking. Do not breathe spray mist.

7.2 Storage

Keep in original container, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs.

Protect from extremes of temperature. Protect from frost.

Storage Life: Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection: When using this product refer to the label for details.

Occupational Exposure Limits: Not applicable to field use.

Hazardous ingredient(s)	LTEL 8hr TWA		STEL		Time min
	ppm	mg/m ³	ppm	mg/m ³	
Paclobutrazol		10			

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	mobile liquid	Colour:	brown
Odour:	not available	pH (Value):	not available
Boiling point (°C):	not available	Melting point (°C):	not available
Auto Ignition Temp (°C):	not available	Flash Point (°C):	does not flash
Explosive Properties:	not applicable	Oxidising Properties:	not applicable
Vapour Pressure (mm Hg):	not available	Solubility (Water):	miscible
Viscosity (mPa.s):	8 - 18 (Casson)	Density (g/ml):	1.08 - 1.11 at 20°C

10. STABILITY AND REACTIVITY

Hazardous Decomposition Product(s): Combustion or thermal decomposition will evolve toxic and irritant vapours.

11. TOXICOLOGICAL INFORMATION

Inhalation:	Unlikely to cause harmful effects under normal conditions of handling and use.
Skin Contact:	Slight irritant to rabbit skin. Unlikely to cause skin sensitisation. Dermal Median Lethal Dose (calculated) >4000 mg/kg (rabbit).
Eye Contact:	Slight irritant to rabbit eyes.
Ingestion:	Low oral toxicity. Oral Median Lethal Dose (calculated) >2000 mg/kg (rat)

12. ECOLOGICAL INFORMATION

Toxicity: Unlikely to be hazardous to aquatic life.

13. DISPOSAL CONSIDERATIONS

Do not contaminate ponds, waterways or ditches with chemical or used containers. Product concentrate, diluted product and empty containers must be disposed of as detailed in the Code of Practice for the Use of Approved Pesticides in Amenity and Industrial Areas (NAAC/NTC). Empty containers should not be used for other purposes. Disposal should be in accordance with local or national legislation.

14. TRANSPORT INFORMATION

Not classified as Dangerous for Transport.

15. REGULATORY INFORMATION

Classification:	HARMFUL
Hazard Symbol:	Xn
Risk Phrases:	R21/22 Harmful in contact with skin and if swallowed.
Safety Phrases	S2 Keep out of reach of children.
	S13 Keep away from food, drink and animal feeding stuffs.
	S20/21 When using do not eat, drink or smoke.
	S36/37 Wear suitable protective clothing and gloves.
	S44 If you feel unwell seek medical advice (show the label where possible).
	S053 Do not reuse container, keep tightly closed in a safe place.

This product has been labelled in accordance with the Control of Pesticides Regulations, 1986. Users should ensure that they comply with any relevant local or national legislation.

The (COSHH) Control of Substances Hazardous to Health Regulations 1994 may apply to the use of this product at work.

16. OTHER INFORMATION

The product was previously marketed by Zeneca (MAFF 06858) and by ICI (MAFF 05056).
Product packed in 5 litre HDPE containers.

This data sheet was prepared in accordance with Directives 91/155/EEC and 93/112/EC.

Use: A soil active growth retardant which inhibits grass growth.

'Holdfast' D is a trade mark of Miracle Garden Care Limited.

The information on this sheet is not a specification. It does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed.