

# SAFETY DATA SHEET

Print Date: 7 February, 2001  
 Setter 33

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

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Dow AgroSciences Limited  
 Latchmore Court  
 Brand Street  
 Hitchin  
 Hertfordshire SG5 1NH

24 hour Emergency Telephone Number: UK: 0870 600 2999  
 Eire: 01 821 4999

Poisons Information Centre: UK: 0121 507 5588/5589  
 Eire: 01 837 9964/66

Product Name: **SETTER 33 : MAFF 05623**

LV70: 29457

Date this form written: November 1995  
 Revised: November 2000 (Section 1, 3, 15)

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

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### Hazardous Components

Component	Min %	Max %	EEC Classification	CAS Number
2,4-DB salt	20.30	20.30	Harmful; R20/21/22	94-82-6
Benazolin salt	4.30	4.30	Irritant; R36/38	3813-05-6
MCPA Salt	3.70	3.70	Harmful; R20/21/22	94-74-6
Additive	2.60	2.60	Irritant; R36/38	

### Additional Classification Information:

None

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## 3. HAZARDS IDENTIFICATION

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Harmful if swallowed.  
 Risk of serious damage to eyes.  
 Irritating to skin.  
 Harmful to fish or other aquatic life.

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## 4. FIRST AID MEASURES

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Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

**Inhalation:**

Inhalation improbable. If inhaled, remove to fresh air and obtain medical aid.

**Skin Contact:**

Carefully remove contaminated clothing. Wash affected area with soap and water. If irritation persists seek medical advice.

**Eye Contact:**

Rinse immediately with clean water for at least 15 minutes and obtain medical aid.

**Ingestion:**

Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice.

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## 5. FIRE FIGHTING MEASURES

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**Suitable extinguishing media:**

Product is not combustible. If product is involved in a fire, use water spray, foam, dry powder, carbon dioxide or sand.

**Unsuitable extinguishing Media:**

None

**Special exposure hazards:**

May give off toxic fumes if heated to decomposition.

**Protective equipment for fire-fighting:**

Do not breathe fumes. Wear self-contained breathing apparatus.

**Fire-fighting guidance:**

If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Whenever possible, contain fire-fighting water by bunding with sand or earth.

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## 6. ACCIDENTAL RELEASE MEASURES

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**Personal precautions:**

Avoid contact with spilled material or contaminated surfaces. If ordinary clothing becomes contaminated remove it immediately. When dealing with the spillage do not eat, drink or smoke and wear personal protective clothing as detailed in Section 8.

**Environmental precautions:**

Keep people and animal away. Prevent entry into drains, sewers and watercourses. If spillage enters drains leading to sewage works inform local water company plc immediately. If spillage enters rivers or watercourses, inform National Rivers Authority.

**Spillage:**

Contain/absorb spillage in sand/earth or in suitable inert material. Transfer collected material to heavy duty plastic drums and keep safe for disposal.

**Note:**

Check also for any local site procedures in force.

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## 7. HANDLING AND STORAGE

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**Handling:**

No specific precautions required when handling unopened containers; follow any relevant manual handling guidance. Refer to Section 8 if exposure to product is possible. Wash thoroughly with soap and water after handling and before eating, drinking or smoking.

**Storage**

Store in original packs in a dry secure area designated for agrochemicals with access for authorised staff only. Store away from seeds, fertilisers and animal feed stuffs.

**Technical storage measures:**

Protect from frost.

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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### Occupational exposure standards:

Product: None assigned

### Engineering control measures:

Refer to any applicable COSHH assessments. Engineering controls should be used where practicable in preference to personal protection.

### Respiratory protection:

None required when handling the product.

### Eye protection:

Wear safety goggles with unperforated side shield or goggles (conforming to BS2092 or equivalent European standard).

### Hand protection:

Wear chemical resistant PVC or nitrile gloves.

### Other:

Wear PVC or chemical resistant disposable overalls and PVC boots.

### Other information:

If feasible, decontaminate protective clothing before removal. Where decontamination is not feasible (before or after removal) dispose of as contaminated waste.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state:	Liquid
Colour:	Brown
Odour:	Slightly phenolic
pH:	Range between 9.6 to 10
Boiling range/point (deg C):	>100
Melting point/freezing point (deg C):	Not determined
Flash point (deg C):	Non-combustible
Explosion limits (%):	None
Solubility in water:	Miscible
Partition coefficient (Log Pow):	No data
Vapour pressure:	No data
Density (g/ml):	1.17 at 20°C
Flammability:	Non-combustible
Auto-flammability (deg C)	No data
Explosive properties:	None
Oxidising properties:	None
Vapour density (Air=1):	As for water
Dust explosion data:	Not applicable
Summary/Other data	A non-combustible product

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## 10. STABILITY AND REACTIVITY

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**Stability:**

Stable at ambient temperatures.

**Conditions to avoid:**

Frost.

**Hazardous decomposition products:**

None under normal conditions of use.

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## 11. TOXICOLOGICAL INFORMATION

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**Inhalation:**

Low toxicity.

**Skin and eye contact:**

Low toxicity

Rat dermal LD50 >2950 mg/kg. Skin irritancy slight.

May cause eye irritation.

**Ingestion:**

Low toxicity.

Rat oral LD50 >2520 mg/kg.

Symptoms may include myotonic spasms, ataxia and inco-ordination.

**Subchronic toxicity:**

2,4-DB; no data

Benazolin; NOEL: rat, 90 days, 300 to 1000 mg/kg daily; dog 90 days, about 300 mg/kg daily

MCPA; NOEL: rat, 2 years, 20 ppm (about 1.33 mg/kg daily)

**Carcinogenicity:**

Laboratory tests and human experience with the active ingredients give no reason to anticipate any carcinogenic hazard for man under normal conditions of use.

**Genotoxicity:**

Laboratory tests and human experience with the active ingredients give no reason to anticipate any mutagenic hazard for man under normal conditions of use.

**Reproductive toxicity:**

Laboratory tests and human experience with the active ingredients give no reason to anticipate any reproductive hazard for man under normal conditions of use.

**Human data:**

No data.

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**12. ECOLOGICAL INFORMATION**

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**Mobility:** No data.

**Persistence/Degradability:**

2,4-DB; half-life in soil <7 days.

Benazolin; degrades to principally 'bound residues'. DT50 about 14 to 28 days.

Kd 1.0 (sandy loam), 0.4 (loam)

MCPA; soil DT50 <7 days after initial 'lag phase'.

**Bio-accumulation:** No data.

**Aquatic toxicity:**

Product; 96 hr LC50 bluegill about 75 mg/l (calculated)

2,4-DB; 96 hr LC50 rainbow trout about 4 mg/l

Benazolin; 96 hr LC50 trout 31.3 mg/l, bluegill sunfish 27 mg/l,

48 hr EC50 daphnia 233.4 mg/l (measured), 353.6 mg/l (nominal)

MCPA; 96 hr LC50 rainbow trout 232 mg/l, EC50 (unspecified time) daphnia >100 mg/l

**Other toxicity:**

2,4-DB; not toxic to bees.

Benazolin; acute oral LD50 Japanese quail >10200 mg/kg, LD50 bees 480 microgram/bee

MCPA; acute oral LD50 bobwhite quail 377 mg/kg, acute oral LD50 bees 0.104 mg/bee

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**13. DISPOSAL CONSIDERATIONS**

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**Product disposal:**

Disposal of product would usually be by incineration in an appropriately licensed commercial incinerator. Small quantities may be accepted in licensed landfill sites. Advice may be obtained from the local waste regulation authority. Disposal arrangements should be in accordance with the Duty of Care Regulations and, where applicable, with the Special Waste Regulations.

**Container disposal:**

Lightly contaminated packaging may be acceptable for landfill, otherwise incineration will be required. See above for advice.

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**14. TRANSPORT INFORMATION**

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UN Number:	Not dangerous for transport.
UN Proper Shipping Name:	Not dangerous for transport.
UN Class:	Not dangerous for transport.
UN Packaging Group:	Not dangerous for transport.
ADR/RID Description:	Not dangerous for transport.
IMDG - Proper Shipping Name:	Not dangerous for transport.
IATA - Proper Shipping Name:	Not dangerous for transport.

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**15. REGULATORY INFORMATION**

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**Risk Symbol(s):** Xn

**Hazard Classification:** Harmful

**Designated name:** Setter 33  
(contains 2,4-DB 237 g/l, benazolin 50 g/l; MCPA 43 g/l).

**R-phrase(s):** Harmful if swallowed.  
Risk of serious damage to eyes.  
Irritating to skin.

**S-phrase(s):** Wear suitable protective clothing, gloves and eye/face protection.  
Keep out of reach of children.  
Keep away from food, drink and animal feeding stuffs.  
When using, do not eat, drink or smoke.

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**16. OTHER INFORMATION**

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The information herein is given in good faith and to the best of our knowledge but no warranty, express or implied, is made.

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