

**SAFETY DATA SHEET**

11/2/05

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

Dow AgroSciences Limited

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Emergency Telephone Number:

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Product Name: **LONTREL\* 200 HERBICIDE (EF-1137) : MAPP 11558**

LV70: 84457

Issue Date: March 02

Ref: BGS1S

Revised: Nov. 04 (Section(s) 3)

**2. COMPOSITION/INFORMATION ON INGREDIENTS****Dangerous components (see section 16 for complete R-phrases):**

			CAS	EC No
Clopyralid	200 g/L	Xi; R41, N; R51/53	001702-17-6	216-935-4
Ethanolamine	64 g/L	Xn; R20, Xi; R36/37/38	000141-43-5	205-483-3
Inert ingredients	Balance			
Composition Code	EF1137			

**3. HAZARDS IDENTIFICATION**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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4. **FIRST-AID MEASURES** Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

**Ingestion**

Do not induce vomiting. Call a physician. The decision of whether to induce vomiting or not should be made by a physician.

**Eye Contact**

Irrigate immediately with water for at least 5 minutes.

**Skin Contact**

Wash skin thoroughly with soap and water.

**Inhalation**

Remove to fresh air. Consult a physician.

**Note to Physician**

No specific antidote. Supportive care. Treatment based on judgement of physician in response to symptoms of patient.

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5. **FIRE-FIGHTING MEASURES**

**Extinguishing Media**

Water fog or fine spray. Carbon dioxide. Dry chemical powder. Foam.

**Hazardous Combustion Products**

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/ or irritating.

**Protection of Firefighters**

Wear protective clothing and use self-contained breathing apparatus.

**Additional Information**

Keep containers cool by spraying with water. Contain runoff to prevent entry into water or drainage systems.

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6. **ACCIDENTAL RELEASE MEASURES**

**Personal Precautions**

Wear appropriate safety clothing and eye/face protection (see Section 8) .

**Environmental Precautions**

Do not wash into sewers or into any body of water. Advise water authority if spillage has entered water course or drainage system.

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**Methods of Cleaning Up**

Soak up with sand or other non-combustible absorbent material and place into containers for disposal. For large spills, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number.

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**7. HANDLING AND STORAGE****Handling**

Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work.

**Storage**

Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated place in the original container. Protect from excessive heat and cold. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers. Keep out of reach of children.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

Clopyralid: Dow AgroSciences IHG is 10 mg/m<sup>3</sup>.

**Engineering Controls**

Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

**Respiratory Protection**

For most conditions, no respiratory protection should be needed. However, if respiratory irritation is experienced use an approved air-purifying respirator. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

**Hand/Skin Protection**

For brief contact, no precautions other than clean body-covering clothing and chemical resistant gloves should be needed. For emergency conditions: Use protective clothing impervious to this material. Selection of specific items will depend on operation.

**Eye/Face Protection**

Use safety glasses.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: brown
Rel. density (water=1)	: 1.113 g/cm <sup>3</sup> (20 deg.C)
Boiling point/range	: 100 deg.C (approx.)
Water solubility	: miscible
Flash point	: none (water based)
pH typical range	: 6.5-8.5

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## 10. STABILITY AND REACTIVITY

### Chemical Stability

Is stable under normal storage conditions.

### Conditions to Avoid

Avoid extremes of temperature.

### Materials to Avoid

Strong basic, acidic or oxidising materials.

### Hazardous Decomposition Products

None under normal conditions of storage and use.

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Based on data for similar formulation.

### Ingestion

Low toxicity if swallowed. The oral LD50 for rats is >5000 mg/kg.

### Skin Contact

The dermal LD50 for rats is >2000mg/kg. Prolonged skin contact is unlikely to result in absorption of harmful amounts. Brief contact may cause slight skin irritation with local redness.

### Sensitisation

Non-sensitising to guinea pig skin.

### Eye Contact

May cause slight temporary eye irritation.

### Inhalation

No adverse effects anticipated by this route of exposure incidental to proper handling. The LC50 for inhalation in rats is greater than the maximum attainable.

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**Additional Information**

Not carcinogenic. Not mutagenic. Not toxic for reproduction.

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**12. ECOLOGICAL INFORMATION** Assessment largely or completely based on

data for active ingredient.

**Persistence and Degradability**

The principle route of degradation is microbial and will occur readily. Half-life in soils is dependent on soil type and conditions and is approximately 12-62 days.

**Aquatic Toxicity**

Material is not harmful to fish on an acute basis (LC50>100mg/L).

Material is not harmful to aquatic invertebrates on an acute basis (EC50>100mg/L).

Material is harmful to algae (10mg/l < IC50 <100mg/l).

**Avian Toxicity**

Material is slightly toxic to birds on an acute basis (500mg/kg <LD50 <2000mg/kg).

**Other Information**

LD50 for bees is >100 microgram/bee.

LD50 for earthworms is >1000mg/kg.

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**13. DISPOSAL CONSIDERATIONS**

For aquatic organisms, material is expected to be Harmful. Do not contaminate ponds, waterways or ditches with chemical or used container. Wash out thoroughly. Container and washings must be disposed of safely and in accordance with applicable regulations. The preferred options are to send to licensed reclaimer or to permitted incinerators. Do not re-use container for any purpose.

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**14. TRANSPORT INFORMATION**

Sample shipment not allowed by mail. Product is not classified for any mode of transportation.

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**15. REGULATORY INFORMATION**

**Hazard Symbol :** None required

**Risk Phrases :** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R52/53).

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**Safety Phrases :** Keep out of reach of children (S2).

This material and its container must be disposed of  
in a safe way (S35).

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## 16. OTHER INFORMATION

### Risk-phrases in Section 2

R20 - Harmful by inhalation.

R41 - Risk of serious damage to eyes.

R36/37/38 - Irritating to eyes, respiratory system and skin.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse  
effects in the aquatic environment.

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knowledge but no warranty, express or implied is made..