

# SAFETY DATA SHEET

## CLOVOTOX

2295 1.00 GB Current 08.12.2000

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

Trade Name	CLOVOTOX
Product (Specification) Code	2295
Aventis CropScience Product Code	None known.
Usage	Solution concentrate (water based) Herbicide
Appearance	Clear brown liquid
Manufacturer/Supplier	Bayer Environmental Science
Address	Durkan House 214-224 High Street Waltham Cross Hertfordshire EN8 7DP
Phone Number	01992 784270
Fax Number	01992 784276
Emergency Phone Number	0800 220876 (24 hr UK) +44 1603 242424 (24 hr Overseas)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous Components in Product for EC

Component Name	CAS No	Conc. %w/w	R Phrases	Classification
1. Mecoprop-p-potassium salt	66423-05-0	13.50 as free acid	R20/21/22	Xn

### 3. HAZARDS IDENTIFICATION

Main Hazards	Irritating to eyes.
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### 4. FIRST-AID MEASURES

Eyes	Rinse immediately with clean water for at least 15 minutes and obtain medical aid.
Skin	Carefully remove contaminated clothing. Wash affected area with soap and water. Seek medical aid if at all worried.
Ingestion	Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice.
Inhalation	If inhaled, remove to fresh air and keep at rest. Obtain medical aid if at all worried.
Advice to Physicians	Brief Summary of Symptoms and Signs: Local Contamination: May cause eye irritation . Systemic Poisoning: None documented to-date but, possibility of myotonic spasms , ataxia and inco-ordination following ingestion . Treatment: Local Contamination: Symptomatic after decontamination. Treat as documented above under 'First-Aid Measures'. Systemic Poisoning: Initial treatment should be symptomatic and supportive. Further advice is available from; Bayer Environmental Science via the emergency telephone number above or from the nearest Poisons Unit.

### 5. FIRE-FIGHTING MEASURES

Extinguishing Media	Product is not combustible. If product is involved in a fire, use waterspray, 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.

# SAFETY DATA SHEET

## CLOVOTOX

2295 1.00 GB Current 08.12.2000

### 5. FIRE-FIGHTING MEASURES (continued)

<b>Fire Fighting Guidance</b>	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 area with sand or earth.
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### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	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.
<b>Environmental Precautions</b>	Keep people and animals away. Prevent entry into drains, sewers and watercourses. In the UK if spillage enters drains leading to sewage works inform local water company plc immediately. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060). Overseas, inform the appropriate authority immediately.
<b>Spillages</b>	Contain/absorb spillage in sand/earth or in a suitable inert material. Transfer collected material to heavy duty plastic drums and keep safe for disposal.
<b>Note</b>	Check also for any local site procedures in force.

### 7. HANDLING AND STORAGE

<b>Handling</b>	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.
<b>Storage</b>	Store in original packs/containers in a dry secure area designated for pesticides with access for authorised staff only. Store away from seeds, fertilizers and animal feedstuffs.
<b>Technical Storage Measures</b>	Protect from frost.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational Exposure Standards</b>	
<b>1. Product</b>	None assigned.
<b>Engineering Control Measures</b>	Refer to any applicable COSHH assessments. Engineering controls should be used where practicable in preference to personal protection.
<b>Respiratory Protection</b>	None required when handling the product.
<b>Hand Protection</b>	Wear chemical resistant PVC or nitrile gloves.
<b>Eye Protection</b>	Wear safety goggles with unperforated side shield or goggles (conforming to BS EN 166 or BS 2092 for older goggles).
<b>Other</b>	Wear PVC or chemical resistant disposable overalls and PVC boots.
<b>Other Information</b>	If feasible, decontaminate protective clothing before removal. Where decontamination is not feasible (before or after removal) dispose of as contaminated waste.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid.
<b>Colour</b>	Yellow.
<b>Odour</b>	No data.
<b>pH</b>	Range between 8 to 9.
<b>Boiling Range/Point (deg C)</b>	Not determined.
<b>Melting Point/Freezing Point (deg C)</b>	Not determined.

# SAFETY DATA SHEET

## CLOVOTOX

2295 1.00 GB Current 08.12.2000

### 9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Flash Point (deg C)	Non-combustible.
Explosion Limits (%)	None.
Solubility in Water	Miscible.
Vapour Pressure	Not determined.
Density (g/ml)	1.06 at 20 °C.
Flammability	Not combustible
Auto-flammability (deg C)	Not applicable
Explosive Properties	None.
Oxidising Properties	None.
Vapour Density (Air = 1)	As for water
Dust Explosion Data	Not applicable
Summary/Other Data	A non-combustible liquid.

### 10. STABILITY AND REACTIVITY

Stability	Stable at ambient conditions.
Conditions to Avoid	None in particular.
Materials to Avoid	None under normal conditions of use.

### 11. TOXICOLOGICAL INFORMATION

Inhalation	Low toxicity.
Skin and Eye Contact	Low toxicity. Irritating to rabbit eyes.
Ingestion	Low toxicity.
Carcinogenicity	Data given in this section are for the active ingredient: Not carcinogenic.
Genotoxicity	No data.
Reproductive Toxicity	Data given in this section are for the active ingredient: Not teratogenic in the rat or rabbit.

### 12. ECOLOGICAL INFORMATION

Mobility	No data.
Persistence/Degradability	No data.
Bio-accumulation	Data given in this section are for the active ingredient: Kow = 1.29 (pH 7.0).
Aquatic Toxicity	Data given in this section are for the active ingredient: 96 hr LC50 trout 150 to 220 mg/l.
Other Toxicity	Data given in this section are for the active ingredient: Acute oral LD50 quail about 500 mg/kg. Low toxicity to the following species; bees .

### 13. DISPOSAL CONSIDERATIONS

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 (part of the Environment Agency in the UK). In the UK disposal arrangements should be in accordance with the Duty of Care Regulations and, where applicable, with the
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# SAFETY DATA SHEET

## CLOVOTOX

2295 1.00 GB Current 08.12.2000


### 13. DISPOSAL CONSIDERATIONS (continued)

<b>Container Disposal</b>	Special Waste Regulations. Lightly contaminated packaging may be acceptable for landfill, otherwise incineration will be required. See above for advice.
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### 14. TRANSPORT INFORMATION

<b>UN Number</b>	Not dangerous for transport
<b>UN Proper Shipping Name</b>	Not dangerous for transport
<b>UN Class</b>	Not dangerous for transport
<b>UN Packaging Group</b>	Not dangerous for transport
<b>ADR/RID - Description</b>	Not dangerous for transport
<b>CDG(CPL) - Description</b>	Not dangerous for transport
<b>IMDG - Proper Shipping Name</b>	Not dangerous for transport
<b>IMDG - Ems Number</b>	None.
<b>IMDG - MFAAG Table Number</b>	None.
<b>ICAO - Proper Shipping Name</b>	Not dangerous for transport

### 15. REGULATORY INFORMATION

<b>Risk symbol</b>	 Irritant
<b>Hazard Classification</b>	Xi - Irritant
<b>Designated Name</b>	Clovotox (contains mecoprop-p 142.5 g/l )
<b>R phrases</b>	36-Irritating to eyes.
<b>S phrases</b>	26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 36/37-Wear suitable protective clothing and gloves. 45-In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Control of Pesticides Regulations 1986: Precautions</b>	WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate. WASH CONCENTRATE from skin or eyes immediately. WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying by vehicle mounted equipment. WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, RUBBER BOOTS AND FACE PROTECTION ( FACESHIELD) when handling contaminated surfaces and applying by hand-held equipment. WASH HANDS AND EXPOSED SKIN before meals and after work. WHEN USING DO NOT EAT, DRINK OR SMOKE. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS. KEEP OUT OF REACH OF CHILDREN. KEEP LIVESTOCK OUT of treated areas until poisonous weeds, such as ragwort, have died and become unpalatable. * HARMFUL TO FISH OR OTHER AQUATIC LIFE. Do not contaminate surface waters or ditches with chemical or used container. KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place. WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely. * This may take several weeks following spraying, depending upon climatic conditions and growth stage of the weeds.

# SAFETY DATA SHEET CLOVOTOX

2295 1.00 GB Current 08.12.2000

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## 16. OTHER INFORMATION

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**MSDS first issued** 8 December 2000

**MSDS data revised**

**Footnote**

This Safety Data Sheet was prepared in compliance with Commission Directive 93/112/EC, 67/548/EEC and 88/379/EEC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

**Disclaimer**

The above information is intended to give general health and safety guidance on the storage and transport of the substance or product to which it relates. It is not intended to apply to the use of the substance or product for which purposes the substance or product label and any appropriate technical usage literature available should be consulted and any relevant licences, consents or approvals complied with. The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted for any injury loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

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