

# SAFETY DATA SHEET

## DIURON 80 WP

358881 2.00 GB Current 26.04.2000

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

<b>Trade Name</b>	DIURON 80 WP
<b>Product (Specification) Code</b>	358881
<b>Aventis CropScience Product Code</b>	None known.
<b>Usage</b>	Wettable Powder Herbicide
<b>Appearance</b>	White solid
<b>Manufacturer/Supplier</b>	Bayer Environmental Science
<b>Address</b>	Durkan House 214-224 High Street Waltham Cross Hertfordshire EN8 7DP
<b>Phone Number</b>	01992 784270
<b>Fax Number</b>	01992 784276
<b>Emergency Phone Number</b>	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. Diuron	330-54-1	80.00	R22, R40, R48/22, R50/53	CC3
2. Sodium methylene polymethylnaphthyl sulphonate	81065-51-2	1.00 < 5.00	R36	Xi
3. Sodium diisopropyl naphthalene sulphonate	1322-93-6	1.00 < 5.00	R22, R36/37	Xn
4. Kaolinitic clay	1332-58-7	5.00 < 25.00		

### 3. HAZARDS IDENTIFICATION

<b>Main Hazards</b>	Irritating to eyes and skin.
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### 4. FIRST-AID MEASURES

<b>Eyes</b>	Rinse immediately with clean water for at least 15 minutes and obtain medical aid.
<b>Skin</b>	Carefully remove contaminated clothing. Wash affected area with soap and water. Seek medical aid if at all worried.
<b>Ingestion</b>	Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice.
<b>Inhalation</b>	If inhaled, remove to fresh air and keep at rest. Obtain medical aid if at all worried.
<b>Advice to Physicians</b>	<p>Brief Summary of Symptoms and Signs: Local Contamination: No symptoms reported. Systemic Poisoning: Potential for cyanosis with headache and dizziness due to Methaemoglobinaemia following large 'exposures'/ingestion of a large amount. Treatment: Local Contamination: Symptomatic after decontamination. Treat as documented above under 'First-Aid Measures'. Systemic Poisoning: Initial treatment should be symptomatic and supportive. In the event of a large 'exposure'/amount (more than one mouthful) being ingested, the following measures should be considered:- carry out gastric lavage and charcoal administration with monitoring of cardiac and kidney functions and red blood cells. Also observe E.C.G., Methaemoglobinaemia and Serum Potassium levels. Methylene blue/Toluidine blue may be used as an antidote. Contraindications: alcohol. Recovery is expected to be spontaneous. Further advice is available from;</p>

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### 4. FIRST-AID MEASURES (continued)

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Bayer Environmental Science via the emergency telephone number above or from the nearest Poisons Unit.

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### 5. FIRE-FIGHTING MEASURES

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<b>Extinguishing Media</b>	Product is not readily combustible. If material is involved in a fire, use foam, dry powder carbon dioxide or sand.
<b>Unsuitable Extinguishing Media</b>	None.
<b>Special Exposure Hazards</b>	May give off toxic fumes if heated to decomposition.
<b>Protective Equipment for Fire-Fighting</b>	Do not breathe fumes. Wear self contained breathing apparatus.
<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

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<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>	Sweep or preferably vacuum up spillage using equipment fitted with high efficiency final filter. Avoid creating a dust. 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.

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### 7. HANDLING AND STORAGE

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<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>	No special measures required.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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<b>Occupational Exposure Standards</b>	
1. <b>Product</b>	None assigned.
2. <b>Diuron</b>	UK EH40: OES 10mg/m <sup>3</sup> 8h TWA.
3. <b>Kaolinitic clay</b>	Dust, respirable: UK EH40: OES 2mg/m <sup>3</sup> 8h TWA.
<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>	Wear dust mask conforming to EN 149 FFP 2S as a minimum.
<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.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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

Physical State	Solid.
Colour	White.
Odour	Faint.
pH	8.0 - 9.0 at 1% w/w in water.
Boiling Range/Point (deg C)	Not applicable
Melting Point/Freezing Point (deg C)	Not determined.
Flash Point (deg C)	Not applicable
Explosion Limits (%)	Not applicable
Solubility in Water	Insoluble, but forms a flowable suspension
Vapour Pressure	Not determined.
Density (g/ml)	0.42.
Flammability	Not readily combustible.
Auto-flammability (deg C)	Not determined.
Explosive Properties	None.
Oxidising Properties	None.
Vapour Density (Air = 1)	Not applicable
Dust Explosion Data	Minimum ignition energy: No data. Minimum explosible concentration: No data. St Class: No data. Method: No data.
Summary/Other Data	A solid that is not readily combustible whose dust explosion hazards are not known.

### 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; rat inhalational LC50 > 5 mg/l. Prolonged exposure to high dust concentrations may cause irritation of the respiratory tract, and possibly headache and nausea.
Skin and Eye Contact	Low toxicity; rat dermal LD50 > 2000 mg/kg. Irritating to the skin and eyes. Negative in a guinea pig skin sensitisation test.
Ingestion	Low toxicity; rat oral LD50 > 2000 mg/kg.
Carcinogenicity	Data given in this section are for the active ingredient: Classified by EEC as a category 3 carcinogen:- substances which cause concern for man owing to possible carcinogenic effects but in respect of which the information is not adequate for making a satisfactory assessment.
Genotoxicity	Data given in this section are for the active ingredient: Classified by EEC as a category 3 mutagen:- substances which cause concern for man owing to possible mutagenic effects but where the available information

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### 11. TOXICOLOGICAL INFORMATION (continued)

**Reproductive Toxicity** does not satisfactorily demonstrate heritable genetic damage.  
No data.

### 12. ECOLOGICAL INFORMATION

**Mobility** No data.

**Persistence/Degradability** Data given in this section are for the active ingredient:  
Soil DT50 90 to 180 days.

**Bio-accumulation** Data given in this section are for the active ingredient:  
Log P = 2.85.

**Aquatic Toxicity** Data given in this section are for the active ingredient:  
96 hr LC50 rainbow trout 5.6 mg/l, bluegill sunfish 5.9 mg/l, guppies 25 mg/l, 48  
hr EC50 daphnia 12 mg/l.

**Other Toxicity** Data given in this section are for the active ingredient:  
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 Special Waste Regulations.

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

### 14. TRANSPORT INFORMATION

**UN Number** 3077

**UN Proper Shipping Name** Environmentally hazardous substances, solid, n.o.s. (contains diuron 80.0 %)

**UN Class** 9

**UN Packaging Group** III

**ADR/RID - Description** 3077, Environmentally hazardous substance, solid, n. o. s (contains diuron 80.0 %), 9,12\*(c), ADR

**CDG(CPL) - Description** 3077, Environmentally hazardous substance, solid, n.o.s (contains diuron 80.0 %).  
Class: 9.  
Hazard Identification Number: 90.  
Packing Group: III.


**IMDG - Proper Shipping Name** Not dangerous for transport

**IMDG - Ems Number** None.

**IMDG - MFAG Table Number** None.

**ICAO - Proper Shipping Name** As for UN.

### 15. REGULATORY INFORMATION

**Risk symbol**  Irritant

**Hazard Classification** Xi - Irritant

**Designated Name** Diuron 80 WP (contains diuron 80.0 %)

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### 15. REGULATORY INFORMATION (continued)

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<b>R phrases</b>	36/38-Irritating to eyes and skin.
<b>S phrases</b>	22-Do not breathe dust. 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>	WHEN USING DO NOT EAT, DRINK OR SMOKE. WASH CONCENTRATE from skin or eyes immediately. WASH HANDS AND EXPOSED SKIN before meals and after work. DO NOT BREATHE SPRAY KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS. KEEP OUT OF REACH OF CHILDREN. 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. EMPTY CONTAINER COMPLETELY and dispose of safely.

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### 16. OTHER INFORMATION

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<b>MSDS first issued</b>	27 March 2000
<b>MSDS data revised</b>	26 April 2000
<b>Revisions Highlighted</b>	Genotoxicity
<b>Footnote</b>	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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