

**DIURON 80 WP 12711 10X1KG GB**Version 1 / GB
1020000017171/8
Revision Date: 05.02.2004
Print Date: 05.02.2004**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Product information**

Trade name	DIURON 80 WP 12711 10X1KG GB
Product code (UVP)	05923514
Product code	TADS10956
Product code (EXP)	04313D
Specification	12711
Usage	herbicide
Company	Bayer Environmental Science Durkan House 214-224 High Street Waltham Cross Hertfordshire EN8 7DP Great Britain
Telephone	+44(0)1992 784270
Telefax	+44(0)1992 784276
Emergency telephone number	0800-220876 (UK only) +44(0)1223-870312

2. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**Wettable powder (WP)
Diuron 80% WP**Hazardous components**

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Diuron	330-54-1 206-354-4	Xn, N	R22, R40, R48/22, R50/53	80.00
Sodium diisopropyl naphthalene sulphonate	1322-93-6 215-343-3	Xn	R22, R36/37	> 1.00 - < 5.00
Sodium methylene polymethylnaphthyl sulphonate	81065-51-2	Xi	R36	> 1.00 - < 5.00
Synthetic amorphous silica	112926-00-8			> 5.00 - < 25.00

3. HAZARDS IDENTIFICATION**Risk advice to man and the environment**

Harmful if swallowed.

Limited evidence of a carcinogenic effect.

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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



DIURON 80 WP 12711 10X1KG GB

Version 1 / GB
102000001717

2/8
Revision Date: 05.02.2004
Print Date: 05.02.2004

4. FIRST AID MEASURES

Inhalation

Move the patient to fresh air and keep at rest. If symptoms persist, call a physician.

Skin contact

Take off contaminated clothing and shoes immediately. When in contact with the skin, clean with soap and water. If symptoms persist, call a physician.

Eye contact

In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist, seek medical advice

Ingestion

Do not induce vomiting. Rinse mouth thoroughly with water. Give small amounts of water to drink. Keep body calm, protect against loss of heat. Take medical treatment.

Notes to physician

Symptoms

Local:, irritant effects

Symptoms

Systemic:, The absorption of this product into the body may lead to the formation of methaemoglobine that, in sufficient concentration, causes cyanosis., If large amounts are ingested, the following symptoms may occur:, dizziness, headache

Risks

Danger of formation of methaemoglobin.

Treatment

Local treatment:

Treat symptomatically.

Treatment

Systemic treatment:

In the event of a mouthful or more being ingested, the following measures should be considered:

Monitoring of: cardiac, kidney and red blood cell count.

Observe specific parameters: methaemoglobinemia and serum potassium.

If ingested, irrigate the stomach using activated charcoal in addition.

If methaemoglobin level is less than 20%, administer 100% oxygen. If methaemoglobin level is greater than 20% treat with 100% oxygen and slowly give 1% Methylene Blue/Toluidine Blue solution intravenously, 1-2 mg/kg body weight.

Contraindications: alcohol

Recovery: Spontaneous.

Oxygen, if needed.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

water spray

foam

dry powder

carbon dioxide (CO₂)

Specific hazards during fire fighting

The product itself does not burn.



DIURON 80 WP 12711 10X1KG GB

Version 1 / GB
102000001717

3/8
Revision Date: 05.02.2004
Print Date: 05.02.2004

In the event of fire the following can be released:
carbon monoxide (CO)
nitrogen oxides (NO_x)
Sulphur oxides
hydrogen chloride (HCl)

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.
Wear full protective suit.

Further information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment.
Evacuate personnel to safe areas.

Environmental precautions

Keep people and animals away.
Do not discharge into the drains/surface water/groundwater.
If spillage enters drains leading to sewage works inform local water company immediately.
If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

Methods for cleaning up

Use mechanical handling equipment.
For disposal, pack in tightly closed containers.

Additional advice

Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.
Avoid dust formation.

Advice on protection against fire and explosion

The product neither sensitive to impacts nor to rub effects and therefore not explosive.

Storage

Requirements for storage areas and containers

Keep containers tightly closed in a dry, cool and well-ventilated place.

Further information on storage conditions

Keep away from direct sunlight.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Storage stability

**DIURON 80 WP 12711 10X1KG GB**Version 1 / GB
1020000017174/8
Revision Date: 05.02.2004
Print Date: 05.02.2004Storage period 24 Months
Storage temperature 20 - 30 °CSuitable materials
paper sac with a polyethylene lined interior**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Refer to COSHH assessment (Control of substances Hazardous to Health Regulations 1999 as amended). Engineering controls should be used in preference to personal protective equipment wherever practicable.

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Diuron	330-54-1	10 mg/m ³ (TWA)	2001	EH40 OES
Synthetic amorphous silica	112926-00-8	2.4 mg/m ³ (TWA)	2002	EH40 OES
		6 mg/m ³ (TWA)	2002	EH40 OES

Engineering measures

See chapter 7; no measures exceeding those mentioned are necessary.

Personal protective equipmentRespiratory protection Short term: filter apparatus, Filter P3
Hand protection PVC disposable gloves
nitrile rubber
Eye protection Safety glasses / face shield
Skin and body protection Light protective clothing, thick material**Hygiene measures**

When using, do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.

Protective measures

Avoid contact with skin and eyes.
Do not breathe dust.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**Form powder
Colour white to light brown**Safety data**pH 8 - 9
Determined as a 1% suspension in distilled water.



DIURON 80 WP 12711 10X1KG GB

Version 1 / GB
102000001717

5/8
Revision Date: 05.02.2004
Print Date: 05.02.2004

Melting point/range	ca. 160 °C
Autoignition temperature	The product is not self-ignitable.
Bulk density	423 kg/m ³
Water solubility	dispersible
Explosivity	Not explosive Dust may form explosive mixtures with air.

10. STABILITY AND REACTIVITY

Conditions to avoid	Extremes of temperature and direct sunlight.
Materials to avoid	Incompatible with acids and bases.
Hazardous reactions	Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 (rat) 686 mg/kg
Acute inhalation toxicity	LC50 (rat) > 4.925 mg/l Exposure time: 4 h Highest attainable concentration.
Acute dermal toxicity	LD50 (rat) > 2,000 mg/kg
Skin irritation	non-irritant (rabbit)
Eye irritation	non-irritant (rabbit)
Sensitization	non-sensitizing (guinea pig)
Assessment carcinogenicity	A possible carcinogenic effect at high doses in animal studies on the active substance diuron is indicated.
Further information	The toxicological data are based on the active ingredient.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 14.7 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Daphnia) 1.4 mg/l Exposure time: 48 h



DIURON 80 WP 12711 10X1KG GB

Version 1 / GB
102000001717

6/8
Revision Date: 05.02.2004
Print Date: 05.02.2004

Toxicity to algae EC50 (Scenedesmus subspicatus) 0.022 mg/l
Exposure time: 96 h

Further information on ecology

Additional ecological information
Non-hazardous for Bees.
The ecological data given are those of the active ingredient.

13. DISPOSAL CONSIDERATIONS

Product

In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority
Can be landfilled or incinerated, when in compliance with local regulations.
Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as product waste.
Empty containers can be landfilled after cleaning, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION

ADR/RID/ADNR

UN-No	3077
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIURON)

IMDG

UN-No	3077
Class	9
Packaging group	III
Marine pollutant	Marine pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIURON)

IATA

UN-No	3077
Class	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIURON)

**DIURON 80 WP 12711 10X1KG GB**Version 1 / GB
1020000017177/8
Revision Date: 05.02.2004
Print Date: 05.02.2004**CDG CPL**

UN-No	3077
Class	9
Packaging group	III
Hazard identification number	90
Emergency action code	2X
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIURON)

15. REGULATORY INFORMATION

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3.

Hazardous components which must be listed on the label:

- Diuron

Symbol(s)

Xn	Harmful
N	Dangerous for the environment

R-phrases(s)

R22	Harmful if swallowed.
R40	Limited evidence of a carcinogenic effect.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S35	This material and its container must be disposed of in a safe way.
S36/37	Wear suitable protective clothing and gloves.
S57	Use appropriate containment to avoid environmental contamination.

Exceptional labelling of special preparations

Restricted to professional users.

To avoid risks to man and the environment, comply with the instructions for use.

Further information

WHO-classification: III (Slightly hazardous)

16. OTHER INFORMATION**Further information**

Text of R phrases mentioned in Section 2:

R22	Harmful if swallowed.
R36	Irritating to eyes.
R36/37	Irritating to eyes and respiratory system.
R40	Possible risks of irreversible effects.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses,



DIURON 80 WP 12711 10X1KG GB

Version 1 / GB
102000001717

8/8
Revision Date: 05.02.2004
Print Date: 05.02.2004

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.

Changes since the last version will be highlighted in the margin. This version replaces all previous versions.
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