



## DORMONE 12022 1X20L GB

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102000001618

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Revision Date: 20.11.2003  
Print Date: 20.11.2003

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

#### Product information

Trade name DORMONE 12022 1X20L GB  
Product code (UVP) 05922275  
Product code TADS9767  
Product code (EXP) 04845A  
Specification 12022  
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

Soluble concentrate (SL)  
2,4-D 465 g/l

#### Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
2,4-D Diethanolamine salt	5742-19-8	Xn, N	R22, R41, R43, R51/53	56.30

### 3. HAZARDS IDENTIFICATION

#### Risk advice to man and the environment

Harmful if swallowed.  
Risk of serious damage to eyes.  
May cause sensitization by skin contact.  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. FIRST AID MEASURES

#### General advice

Remove contaminated, soaked clothing immediately and dispose of safely.

#### Inhalation

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



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### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

### Eye contact

In case of contact with eyes rinse thoroughly with water. Seek medical advice immediately.

### Ingestion

Do not induce vomiting. Wash out mouth with water. Keep at rest. Obtain medical attention.

### Notes to physician

#### Symptoms

Local: May cause skin and eye irritation.

#### Symptoms

Systemic: To date no symptoms are known.

#### Treatment

Local treatment:

Initial treatment should be symptomatic and supportive.

#### Treatment

Systemic treatment:

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

Gastric lavage with charcoal, if necessary further treatment.

Observe specific parameters: blood pressure, levels of 2,4-D in plasma and urine, pH in urine.

Elimination by dialysis (forced alkaline diuresis).

There is no antidote.

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## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

water spray  
alcohol-resistant foam  
dry chemical  
carbon dioxide (CO<sub>2</sub>)

### Extinguishing media which must not be used for safety reasons

Product itself is non-combustible; fire extinguishing measures to suit surroundings.

### Specific hazards during fire fighting

In case of fire the evolution of dangerous gases is possible.

### Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes.

Wear self contained breathing apparatus for fire fighting if necessary.

### Further information

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.

Whenever possible, contain fire-fighting water by bunding area with sand or earth.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Avoid contact with spilled product or contaminated surfaces.

When dealing with a spillage do not eat, drink or smoke.



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### 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

Take up with absorbent material (e.g. sand, earth or a proprietary absorbent material).  
Transfer collected material to heavy duty plastic drums and keep safe for disposal.  
Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations

### Additional advice

Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.  
Check also for any local site procedures.

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## 7. HANDLING AND STORAGE

### Handling

#### Advice on safe handling

No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.  
Provide good ventilation of working area (local exhaust ventilation if necessary).

#### Advice on protection against fire and explosion

No special precautions required.

### Storage

#### Requirements for storage areas and containers

Keep containers tightly closed in a cool, well-ventilated place.  
Store in a place accessible by authorized persons only.

#### Further information on storage conditions

Keep away from direct sunlight.  
Protect against frost.

#### Storage stability

Storage temperature                      0 - 30 °C

#### Suitable materials

Keep in original packaging, tightly closed.

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## 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.

### Personal protective equipment

Respiratory protection                      No personal respiratory protective equipment normally required.

Hand protection                              Chemical resistant gloves



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	PVC or nitrile rubber gloves
Eye protection	Chemical resistant goggles must be worn.
Skin and body protection	Light protective clothing, PVC PVC boots

### Hygiene measures

- When using, do not eat, drink or smoke.
- Remove soaked clothing immediately.
- Remove soiled clothing immediately.
- Clean hands and face at work intervals and after work.
- Work in an adequately ventilated room.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	Liquid
Colour	brown

### Safety data

Density	ca. 1.22 g/cm <sup>3</sup> at 20 °C
Water solubility	Miscible
Partition coefficient (n-octanol/water)	log Pow: 2.58 - 2.83 The value mentioned relates to the active ingredient 2,4-D.
Other information	The product is not combustible.

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## 10. STABILITY AND REACTIVITY

Conditions to avoid	Extremes of temperature and direct sunlight.
Materials to avoid	None
Hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.

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## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 (rat) < 2,000 mg/kg
Acute inhalation toxicity	LC50 (rat) > 5 mg/l Exposure time: 4 h
Acute dermal toxicity	LD50 (rat) > 2,000 mg/kg
Skin irritation	No skin irritation (rabbit)



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Eye irritation	Risk of serious damage to eyes. (rabbit)
Sensitization	sensitizing (guinea pig)
Further information	Information given is based on data on the components and the toxicology of similar products

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

Toxicity to fish	LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) > 100 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient 2,4-D.
Toxicity to algae	EC50 ( <i>Selenastrum capricornutum</i> ) 33.2 mg/l Exposure time: 120 h The value mentioned relates to the active ingredient 2,4-D.
Toxicity to other organisms	LD50 (Japanese quail) 668 mg/kg The value mentioned relates to the active ingredient 2,4-D.

## 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	3082
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D DIETHANOLAMINE SOLUTION)
Special Provision	

### IMDG

UN-No	3082
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Class	9
Packaging group	III
Marine pollutant	Marine pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D DIETHANOLAMINE SOLUTION )

### IATA

UN-No	<b>3082</b>
Class	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D DIETHANOLAMINE SOLUTION )

### CDG CPL

UN-No	<b>3082</b>
Class	9
Packaging group	III
Hazard identification number	90
Emergency action code	2X
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (2,4-D DIETHANOLAMINE)

## 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:

- 2,4-D

### Symbol(s)

Xn	Harmful
N	Dangerous for the environment

### R-phrases(s)

R22	Harmful if swallowed.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### S-phrases(s)

S24	Avoid contact with the skin.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35	This material and its container must be disposed of in a safe way.
S37/39	Wear suitable gloves and eye/face protection.
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: II (Moderately hazardous)



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### 16. OTHER INFORMATION

#### Further information

Text of R phrases mentioned in Section 2:

R22	Harmful if swallowed.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R51/53	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, 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.