



## DICOTOX EXTRA EC400 1X25L JUG GB

Version 2 / GB  
10200001686

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Revision Date: 02.05.2006  
Print Date: 21.06.2006

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

#### Product information

Trade name DICOTOX EXTRA EC400 1X25L JUG GB  
Product code (UVP) 05923115  
Usage herbicide  
Company Bayer Environmental Science  
230 Cambridge Science Park  
Milton Road  
Cambridge  
Cambridgeshire CB4 0WB  
Great Britain  
Telephone +44(0)1223 226500  
Telefax +44(0)1223 426240  
Emergency telephone number 0800-220876 (UK 24 hr)  
+44(0)1603-242424 (Overseas 24 hr)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical nature

Emulsifiable concentrate (EC)  
2,4-D 400 g/l

#### Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
2,4-D ethylhexyl ester	1928-43-4 217-673-3	Xn, N	R22, R43, R50/53	60.40
Ethoxylated polyarylphenol	99734-09-5		R52/53	> 1.00 - < 5.00
Calcium dodecylbenzenesulfonate, branched	70528-83-5 274-654-2	Xi, N	R38, R41, R51/53	> 1.00 - < 5.00
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5 265-198-5	Xn, N	R40, R51/53, R65, R66, R67	> 25.00 - < 50.00

### 3. HAZARDS IDENTIFICATION

#### Risk advice to man and the environment

Harmful if swallowed.  
Limited evidence of a carcinogenic effect.  
May cause sensitization by skin contact.  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Harmful: may cause lung damage if swallowed.  
Repeated exposure may cause skin dryness or cracking.  
Vapours may cause drowsiness and dizziness.



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### 4. FIRST AID MEASURES

#### General advice

Remove contaminated clothing immediately and dispose of safely.

#### Inhalation

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

#### Skin contact

Wash off thoroughly with plenty of water and soap, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

#### Eye contact

In case of contact with eyes rinse thoroughly with water. Get medical attention if irritation develops and persists.

#### Ingestion

Do not induce vomiting. Induce vomiting only, if: 1. patient is fully conscious, 2. medical aid is not readily available, 3. a significant amount (more than a mouthful) has been ingested and 4. time since ingestion is less than 1 hour. (Vomit should not get into the respiratory tract). Rinse mouth. Keep patient warm and at rest.

#### Notes to Physician

#### Symptoms

Local: The product causes irritation of eyes, skin and mucous membranes.

#### Symptoms

Systemic: mild acidosis, tachycardia, Irregular cardiac activity, low blood pressure, Circulatory collapse, cough, shortness of breath, nausea, vomiting, diarrhoea, abdominal pain, rhabdomyolysis, somnolence, coma, fever, convulsions

#### 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 specific antidote.

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### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

high volume water jet

#### 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



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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 diking area with sand or earth.

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions**

Keep people away from and upwind of spill/leak.  
Avoid contact with spilled product or contaminated surfaces.  
When dealing with a spillage do not eat, drink or smoke.

**Environmental Precautions**

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, diatomaceous earth or a proprietary absorbent material).  
Keep in suitable, closed containers for disposal.  
Clean floors and contaminated objects with plenty of water.

**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.  
Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion  
The product is combustible.  
Keep away from sources of ignition - No smoking.  
Vapours may form explosive mixture with air.

**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.  
Keep away from direct sunlight.  
Protect against frost.

Advice on common storage  
Keep away from food, drink and animal feedingstuffs.

Storage stability  
Storage temperature                      0 - 30 °C

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Upper explosion limit	7.00 %(V) The data refers to solvent naphtha petroleum.
Lower explosion limit	0.8 %(V) The data refers to solvent naphtha petroleum.
Relative vapour density	1.00 The data refers to solvent naphtha petroleum.
Density	ca. 1.08 g/cm <sup>3</sup> at 20 °C
Water Solubility	miscible

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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)
Eye Irritation	No eye irritation. (rabbit)
Sensitization	sensitizing (guinea pig)

#### Further information

|| The product is a substance of the type Carc. Cat. 3.  
|| When inhaled in high concentration, the solvent vapours cause a narcotic effect.  
|| Information given is based on data on the components and the toxicology of similar products.

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### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity effects

Toxicity to Fish	LC50 (Rainbow trout (Oncorhynchus mykiss)) > 100 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient 2,4-D.
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Toxicity to daphnia	EC50 (Daphnia) 5.2 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient 2,4-D-ethylhexyl ester.
Toxicity to algae	EC50 (Skeletonema costatum) 0.23 mg/l The value mentioned relates to the active ingredient 2,4-D-ethylhexyl ester.

**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.

Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

**Contaminated packaging**

Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times.

Add washings to sprayer at time of filling.

Dispose of empty and cleaned packaging safely.

Large containers (> 25 l or > 25 kg) should not be rinsed or re-used for any other purpose.

Return large containers to supplier.

Follow advice on product label and/or leaflet.

**Waste key for the unused product**

020108 agrochemical waste containing dangerous substances

**14. TRANSPORT INFORMATION****ADR/RID/ADNR**

UN-No	<b>3082</b>
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D ETHYLHEXYL ESTER SOLUTION)

**IMDG**

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

**IATA**

UN-No	<b>3082</b>
Class	9
Packaging group	III

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Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(2,4-D ETHYLHEXYL ESTER SOLUTION )

**UK 'Carriage' Regulations**

UN-No	<b>3082</b>
Labels	9
Packaging group	III
Hazard no.	90
Emergency action code	3Z
Description of the goods	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D ETHYLHEXYL ESTER SOLUTION)

**15. REGULATORY INFORMATION**

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

## Classification:

Labelling according to EEC Directive

Hazardous components which must be listed on the label:

- 2,4-D
- Solvent Naphtha (petroleum), heavy aromatic

## Symbol(s)

Xn	Harmful
N	Dangerous for the environment

## R-phrases)

R22	Harmful if swallowed.
R40	Limited evidence of a carcinogenic effect.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

## S-phrases)

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 container to avoid environmental contamination.
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## CLASSIFICATION ACCORDING TO SPECIFIC UK REGULATIONS:

The labelling information below is that which has been approved under 'The Control of Pesticides Regulations 1986' and/or 'Part III of the Food and Environment Protection Act 1985' and/or 'Plant Protection Product Regulations 1999' and any subsequent amendments and may differ from that indicated by any toxicological and/or other testing otherwise indicated in this 'Safety Data Sheet'.

## Symbol(s)

Xn	Harmful
N	Dangerous for the environment

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R-phrases(s)	
R21/22	Harmful in contact with skin and if swallowed.
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.
S-phrases(s)	
S24	Avoid contact with skin.
S35	This material and its container must be disposed of in a safe way.
S37	Wear suitable gloves.
S57	Use appropriate container to avoid environmental contamination.
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## Exceptional labelling

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.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

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





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of information or advice contained in this safety data sheet.

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