

SAFETY DATA SHEET

DICOTOX EXTRA

2528 1.00 GB Current 08.12.2000

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Trade Name	DICOTOX EXTRA
Product (Specification) Code	2528
Aventis CropScience Product Code	None known.
Usage	Emulsifiable Concentrate (solvent 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. 2,4-D ethylhexyl ester	1928-43-4	37.00 as free acid	R20/21/22	Xn
2. Calcium dodecylbenzenesulfonate in isobutanol	-	1.00 < 5.00	R10, R20, R36/38	f, Xn
3. Solvent naphtha, (petroleum)	64742-94-5	25.00 < 50.00	R65, R51/53	Xn, N

3. HAZARDS IDENTIFICATION

Main Hazards	Harmful in contact with skin.
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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 combustible. If product is involved in a fire, use waterspray, foam, dry powder, carbon dioxide or sand.
Unsuitable Extinguishing Media	None.

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5. FIRE-FIGHTING MEASURES (continued)

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.
Fire Fighting Guidance	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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	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.
Environmental Precautions	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.
Spillages	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.
Note	Check also for any local site procedures in force.

7. HANDLING AND STORAGE

Handling	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.
Storage	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.
Technical Storage Measures	Keep all ignition sources and sources of heat away.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards	
1. Product	None assigned.
2. Solvent naphtha, (petroleum)	HSE guidelines in EH40 require an OEL of 400 mg/m ³ .
Engineering Control Measures	Refer to any applicable COSHH assessments. Engineering controls should be used where practicable in preference to personal protection.
Respiratory Protection	Wear respirator conforming to EN 140 with A1 filters; follow respirator manufacturer's recommendations or instructions.
Hand Protection	Wear chemical resistant PVC or nitrile gloves.
Eye Protection	Wear safety goggles with unperforated side shield or goggles (conforming to BS EN 166 or BS 2092 for older goggles).
Other	Wear PVC or chemical resistant disposable overalls and PVC boots.
Other Information	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

Physical State	Liquid.
Colour	Amber.
Odour	Characteristic.

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9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

pH	No data.
Boiling Range/Point (deg C)	Not determined.
Melting Point/Freezing Point (deg C)	Not determined.
Flash Point (deg C)	Exceeds 65.
Explosion Limits (%)	Lower limit 0.6 % v/v (solvent, naphtha [petroleum]) Upper limit 7.0 % v/v (solvent, naphtha [petroleum])
Solubility in Water	Miscible.
Vapour Pressure	Not determined.
Density (g/ml)	1.08 at 20 °C.
Flammability	Combustible.
Auto-flammability (deg C)	Not determined.
Explosive Properties	None.
Oxidising Properties	None.
Vapour Density (Air = 1)	> 1.0 (solvent, naphtha [petroleum])
Dust Explosion Data	Not applicable
Summary/Other Data	Combustible liquid the vapour of which may form an explosive mixture with air.

10. STABILITY AND REACTIVITY

Stability	Stable at ambient conditions.
Conditions to Avoid	Heat Sources of ignition.
Materials to Avoid	None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Inhalation	High concentrations of solvent vapour may cause narcosis. Vapour may be irritating to the respiratory tract.
Skin and Eye Contact	Harmful in contact with skin; rat dermal LD50 > 2000 mg/kg. Slight and reversible irritant to rabbit eyes (labelling not indicated).
Ingestion	Low toxicity; rat oral LD50 3830 mg/kg.
Carcinogenicity	No data.
Genotoxicity	No data.
Reproductive Toxicity	No data.

12. ECOLOGICAL INFORMATION

Mobility	No data.
Persistence/Degradability	Rapidly hydrolysed in soil and water to the parent acid which then undergoes further degradation . Soil DT50 < 1 day. Water DT50 < 1 day.
Bio-accumulation	No data.
Aquatic Toxicity	Data given in this section are for the active ingredient: Non-toxic to aquatic organisms. Acute aquatic toxicity is above water solubility limit.
Other Toxicity	Data given in this section are for the active ingredient: Acute oral LD50 birds 500 to < 2000 mg/kg. .

13. DISPOSAL CONSIDERATIONS

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13. DISPOSAL CONSIDERATIONS (continued)

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	3082
UN Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s. (contains petroleum distillates)
UN Class	9
UN Packaging Group	III
ADR/RID - Description	Not dangerous for transport
CDG(CPL) - Description	Not dangerous for transport
IMDG - Proper Shipping Name	As for UN + marine pollutant symbol used where appropriate.
IMDG - Ems Number	None.
IMDG - MFAG Table Number	None.
ICAO - Proper Shipping Name	As for UN.

15. REGULATORY INFORMATION

Risk symbol	 Harmful
Hazard Classification	Xn - Harmful
Designated Name	Dicotox Extra (contains 2,4-D 400 g/l and solvent, naphtha (petroleum))
R phrases	21/22-Harmful in contact with skin and if swallowed. 36/38-Irritating to eyes and skin. 43-May cause sensitisation by skin contact.
S phrases	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).
Control of Pesticides Regulations 1986: Precautions	WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate. 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 CONCENTRATE from skin or eyes immediately. WASH HANDS AND EXPOSED SKIN before meals and after work. KEEP LIVESTOCK OUT of treated areas for at least 2 weeks following treatment and until poisonous weeds such as ragwort have died and become unpalatable. WHEN USING DO NOT EAT, DRINK OR SMOKE. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS. KEEP OUT OF REACH OF CHILDREN. HARMFUL TO FISH OR OTHER AQUATIC LIFE. Do not contaminate ponds,

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15. REGULATORY INFORMATION (continued)

Note

surface waterways 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.
DO NOT RE-USE CONTAINER FOR ANY PURPOSE.
IF YOU FEEL UNWELL, seek medical advice (show label where possible)
The labelling information above is that which has been approved under 'The Control of Pesticide Regulations 1986' and may differ from that indicated by any toxicological and/or other testing otherwise indicated in this 'Safety Data Sheet' If you require any further clarification please contact Bayer Environmental Science via the phone number quoted elsewhere in this 'Safety Data Sheet'.

16. OTHER INFORMATION

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.
