

SAFETY DATA SHEET

LEGUMEX EXTRA

1415 3.00 GB Current 29.11.2000

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Trade Name	LEGUMEX EXTRA
Product (Specification) Code	1415
Aventis CropScience Product Code	AE B107687 07 SL29 A1
Usage	Solution concentrate (water based) Herbicide
Appearance	Clear dark brown liquid
Manufacturer/Supplier	Aventis CropScience UK Limited
Address	Hauxton Cambridge CB2 5HU
Phone Number	01277 301125
Fax Number	01223 872142
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-DB sodium salt	10433-59-7	20.30 as free acid	R20/21/22	Xn
2. MCPA potassium salt	5221-16-9	3.70 as free acid	R20/21/22	Xn
3. Benazolin potassium salt	67338-65-2	2.30 as free acid		
4. Trisodium nitrilotriacetate	5064-31-3	1.00 < 5.00	R36	Xi
5. Potassium Hydroxide	1310-58-3	1.00 < 5.00	R22, R35	C

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: Skin and eye irritation. Systemic Poisoning: None documented to-date but, possibility of myotonic spasms , ataxia , inco-ordination and over-heating 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. In the event of a large amount being ingested the following measures should be considered: 1. Carry out gastric lavage and charcoal administration . Cathartics may also help. 2. Promote alkaline diuresis and maintain fluid balance. Monitor E.C.G. in severe cases. 3. Control spasms with Diazepam. Quinidine may also be useful for muscle tremors and cardiac arrhythmias. 4. Do not use Adrenalin or its analogues. Recovery is expected to be spontaneous.

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4. FIRST-AID MEASURES (continued)

Further advice is available from:
Aventis CropScience UK Limited via the emergency telephone number above or
from the nearest Poisons Unit.

5. FIRE-FIGHTING MEASURES

Extinguishing Media	Product is not combustible. If product is involved in a fire, use waterspray, foam, dry powder, carbon dioxide or sand.
Unsuitable Extinguishing Media	None.
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	Protect from frost.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards	
1. Product	None assigned.
Engineering Control Measures	Refer to any applicable COSHH assessments. Engineering controls should be used where practicable in preference to personal protection.
Respiratory Protection	None required when handling the product.
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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.
Colour	Dark Brown.
Odour	Faint. Phenolic.
pH	Range between 9.6 to 10.
Boiling Range/Point (deg C)	Not determined.
Melting Point/Freezing Point (deg C)	Not determined.
Flash Point (deg C)	Non-combustible.
Explosion Limits (%)	None.
Solubility in Water	Miscible.
Vapour Pressure	As for water
Density (g/ml)	1.17 at 20 °C.
Flammability	Not combustible
Auto-flammability (deg C)	Not applicable
Explosive Properties	None.
Oxidising Properties	None.
Vapour Density (Air = 1)	As for water
Dust Explosion Data	Not applicable
Summary/Other Data	A non-combustible liquid.

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Inhalation	Low toxicity.
Skin and Eye Contact	Harmful in contact with skin; rat dermal LD50 > 2950 mg/kg. Slight and reversible irritant to rabbit skin and eyes (labelling not indicated).
Ingestion	Low toxicity; rat oral LD50 > 2520 mg/kg.
Carcinogenicity	2,4-DB; No data. MCPA; Not carcinogenic. Benazolin; No data.
Genotoxicity	No data.
Reproductive Toxicity	2,4-DB; No data. MCPA; Not teratogenic in the rat or rabbit. Benazolin; No data.

12. ECOLOGICAL INFORMATION

Mobility	No data.
Persistence/Degradability	2,4-DB; Soil DT50 < 7 days. MCPA; Soil DT50 < 7 days. Benazolin; Soil DT50 14 to 28 days.
Bio-accumulation	2,4-DB; No data. MCPA; Log Pow = 2.75 (pH 1.0, 25 deg. C), 0.46 (pH 5.0, 25 deg. C). Benazolin; Log Pow = 1.34 (pH 2.0 and 7.0, 20 deg. C).

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12. ECOLOGICAL INFORMATION (continued)

Aquatic Toxicity	2,4-DB; 96 hr LC50 rainbow trout 4 mg/l (amine salt and esters) . MCPA; 96 hr LC50 rainbow trout 232 mg/l, 48 hr EC50 daphnia > 100 mg/l. Benazolin; 96 hr LC50 rainbow trout 31.3 mg/l, bluegill sunfish 27 mg/l, 48 hr EC50 daphnia 233.4 mg/l.
Other Toxicity	2,4-DB; Low toxicity to the following species; bees . MCPA; Acute oral LD50 bobwhite quail 377 mg/kg. Benazolin; 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	Not dangerous for transport
UN Proper Shipping Name	Not dangerous for transport
UN Class	Not dangerous for transport
UN Packaging Group	Not dangerous for transport
ADR/RID - Description	Not dangerous for transport
CDG(CPL) - Description	Not dangerous for transport
IMDG - Proper Shipping Name	Not dangerous for transport
IMDG - Ems Number	None.
IMDG - MFAG Table Number	None.
ICAO - Proper Shipping Name	Not dangerous for transport

15. REGULATORY INFORMATION

Risk symbol	<input type="checkbox"/> None
Hazard Classification	Not classified
Designated Name	Legumex Extra (contains 2,4-DB 237 g/l, MCPA 42.8 g/l and benazolin 27 g/l)
R phrases	Not classified
S phrases	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	KEEP LIVESTOCK OUT of treated areas until foliage of poisonous weeds such as ragwort have died and become unpalatable. HARMFUL TO FISH OR OTHER AQUATIC LIFE. Do not contaminate surface waters or ditches with chemical or used container. WASH CONCENTRATE from skin or eyes immediately. WASH HANDS AND EXPOSED SKIN before meals and after work. KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place. WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely. This container must not be re-used.

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15. REGULATORY INFORMATION (continued)

Note	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 Aventis CropScience UK Limited via the phone number quoted elsewhere in this 'Safety Data Sheet'.
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16. OTHER INFORMATION

MSDS first issued	30 October 1995
MSDS data revised	29 November 2000
Revisions Highlighted	R Phrases Hazard Classification Control of Pesticides Regulations 1986: Precautions
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.
