

SAFETY DATA SHEET

DRUID

1558 2.00 GB Current 24.07.2000

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Trade Name DRUID
Product (Specification) Code 1558
Product Code AE F075032 00 WG50 A1
Usage Water Dispersible Granule Herbicide
Appearance Pale grey granules
Manufacturer/Supplier Bayer CropScience Limited
Address Hauxton
Cambridge
CB2 5HU
Phone Number 01223 870312
Fax Number 01223 872142
Emergency Phone Number 0800 220876 (24 hr UK)
+44 1223 870312 (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. Amidosulfuron	120923-37-7	50.00		
2. Aluminium silicate hydrate	1318-74-7	5.00 < 25.00		
3. Kieselguhr	61790-53-2	5.00 < 25.00	R40/20	Xn
4. Sodium lauryl sulphate	-	5.00 < 25.00	R22, R36/38	Xn

3. HAZARDS IDENTIFICATION

Main Hazards Irritating to eyes.

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: None documented to-date.
Systemic Poisoning: None documented to-date.
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 'exposure'/amount (more than one mouthful) being ingested, the following measures should be considered:- carry out gastric lavage and charcoal administration . Elimination by Forced Alkaline Diuresis should also be considered.
There is no antidote.
Further advice is available from;
Bayer CropScience Limited via the emergency telephone number above or from the nearest Poisons Unit.

5. FIRE-FIGHTING MEASURES

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5. FIRE-FIGHTING MEASURES (continued)

Extinguishing Media	Product is not readily combustible. If material is involved in a fire use waterspray or foam.
Unsuitable Extinguishing Media	Powder or CO2 extinguishers should not be used.
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	Sweep or preferably vacuum up spillage using equipment fitted with high efficiency final filter. Avoid creating a dust. 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. Storage temperature should be kept below 50 °C.
Technical Storage Measures	No special measures required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards	
1. Product	None assigned.
2. Aluminium silicate hydrate	Dust, respirable: UK EH40: OES 2mg/m3 8h TWA.
3. Kieselguhr	Dust, total inhalable: UK EH40: OES 10mg/m3 8h TWA. Dust, respirable: UK EH40: OES 4mg/m3 8h TWA.
Engineering Control Measures	Refer to any applicable COSHH assessments. Engineering controls should be used where practicable in preference to personal protection.
Respiratory Protection	Wear dust mask conforming to EN 149 FFP 2S as a minimum.
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

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9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Physical State	Granules.
Colour	Pale grey.
Odour	Characteristic.
pH	3.7 to 5.7 at 1% w/w in water.
Boiling Range/Point (deg C)	Not applicable
Melting Point/Freezing Point (deg C)	No data.
Flash Point (deg C)	Not applicable
Explosion Limits (%)	None.
Solubility in Water	Insoluble, but forms a flowable suspension
Vapour Pressure	No data.
Density (g/ml)	0.5 to 0.7.
Flammability	Not readily combustible.
Auto-flammability (deg C)	376
Explosive Properties	None.
Oxidising Properties	None.
Vapour Density (Air = 1)	Not applicable
Dust Explosion Data	Minimum ignition energy: No data. Minimum explosible concentration: No data. St Class: No data.
Summary/Other Data	A combustible solid whose dust explosion properties are not known.

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; rat inhalational LC50 > 2.46 mg/l (4 hr).
Skin and Eye Contact	Low toxicity; rat dermal LD50 > 2000 mg/kg. Irritating to rabbit eyes. Not irritating to rabbit skin. Negative in a guinea pig skin sensitisation test.
Ingestion	Low toxicity; rat oral LD50 > 5000 mg/kg.
Carcinogenicity	No data.
Genotoxicity	Data given in this section are for the active ingredient: Not mutagenic.
Reproductive Toxicity	Data given in this section are for the active ingredient: Not teratogenic.

12. ECOLOGICAL INFORMATION

Mobility	No data.
Persistence/Degradability	Data given in this section are for the active ingredient: Soil DT50 14 to 29 days. Water DT50 33.9 days (pH 5.0 @ 25 deg. C), 365 days (pH 7.0 @ 25 deg. C), 365 days (pH 9.0 @ 25 deg. C).
Bio-accumulation	Data given in this section are for the active ingredient: Kow = 43 (pH 2.0 @ 20 deg. C).

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12. ECOLOGICAL INFORMATION (continued)

Aquatic Toxicity	Product; 96 hr LC50 rainbow trout 18 mg/l, 72 hr EbC50 algae 0.62 mg/l. Amidosulfuron; 96 hr LC50 trout > 320 mg/l, 48 hr EC50 water flea 36 to 55 mg/l, 72 hr EbC50 algae 47 mg/l.
Other Toxicity	Data given in this section are for the active ingredient: Acute oral LD50 mallard duck > 2000 mg/kg, bobwhite quail > 2000 mg/kg. 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	3077.
UN Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s. (contains amidosulfuron 50.0 %)
UN Class	9
UN Packaging Group	III
ADR/RID - Description	3077, Environmentally hazardous substance, solid, n. o. s (contains amidosulfuron 50.0 %), 9, 12*(c), ADR
CDG(CPL) - Description	3077, Environmentally hazardous substance, solid, n.o.s (contains amidosulfuron 50.0 %). Class: 9. Hazard Identification Number: 90. Packing Group: III.
IMDG - Proper Shipping Name	Not dangerous for transport
IMDG - Ems Number	None.
IMDG - MFAG Table Number	None.
ICAO - Proper Shipping Name	As for UN.

15. REGULATORY INFORMATION

Risk symbol	 Irritant
Hazard Classification	Xi - Irritant
Designated Name	Druid (contains amidosulfuron 50.0 %, kieselguhr and sodium lauryl sulphate)
R phrases	36-Irritating to eyes.
S phrases	22-Do not breathe dust. 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 FACE PROTECTION (FACESHIELD) when handling the concentrate. WASH HANDS AND EXPOSED SKIN before meals and after work. WHEN USING DO NOT EAT, DRINK OR SMOKE. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

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15. REGULATORY INFORMATION (continued)

KEEP OUT OF REACH OF CHILDREN.
DANGEROUS TO FISH OR OTHER AQUATIC LIFE. Do not contaminate surface waters or ditches with chemical or used container.
WASH OUT CONTAINER THOROUGHLY and dispose of safely.

16. OTHER INFORMATION

MSDS first issued 10 October 1997

MSDS data revised 24 July 2000

Revisions Highlighted Extinguishing Media
Unsuitable Extinguishing Media
Flammability
UN Number
UN Proper Shipping Name
UN Class
UN Packaging Group
ADR/RID - Description
ICAO - Proper Shipping Name
CDG(CPL) - Description
S Phrases

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.
