

SAFETY DATA SHEET

CORNICHE

1400 2.00 GB Current 29.11.2000

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Trade Name	CORNICHE
Product (Specification) Code	1400
Aventis CropScience Product Code	AE F023408 34 EW28 A3
Usage	Oil in water emulsion (solvent/water based) Herbicide
Appearance	Flowable white liquid suspension
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. Diclofop-methyl	51338-27-3	22.70	R22	Xn
2. Fenoxaprop-p-ethyl	71238-80-2	1.80	R43, R50/53	Xi, N
3. Mefenpyr-ethyl	135590-94-9	3.60	R51/53	N
4. Fatty alcohol polyglycol ether	-	5.00 < 25.00	R22, R36/38, R51/53	Xn, N
5. Glycerol	56-81-5	5.00 < 25.00		
6. Solvent, naphtha (petroleum)	64742-94-5	5.00 < 25.00	R65, R51/53	Xn, N

3. HAZARDS IDENTIFICATION

Main Hazards	Not classified as hazardous.
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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	<p>Brief Summary of Symptoms and Signs: Local Contamination: Potential for skin sensitisation, although no human cases documented to date. Systemic Poisoning: None reported to-date.</p> <p>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. Also, monitoring of the following; kidney and liver functions and red blood cell count with observation of blood lipid and cholesterol for reduced levels. Elimination by Forced Alkaline Diuresis should also be considered. Recovery is expected to be spontaneous. Further advice is available from;</p>

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4. FIRST-AID MEASURES (continued)

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 readily 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 burnt.
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.
2. Glycerol	UK EH40: OES 10mg/m ³ 8h TWA. (mist)
3. Solvent, naphtha (petroleum)	HSE guidelines in EH40 require an OES of 500 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

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

contaminated waste.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.
Colour	White.
Odour	Aromatic.
pH	No data.
Boiling Range/Point (deg C)	Not determined.
Melting Point/Freezing Point (deg C)	Not determined.
Flash Point (deg C)	Exceeds 100.
Explosion Limits (%)	Lower limit 0.6 % v/v (solvent, naphtha [petroleum]) Upper limit 7.0 % v/v (solvent, naphtha [petroleum])
Solubility in Water	Emulsifies.
Vapour Pressure	Not determined.
Density (g/ml)	1.1 at 20 °C.
Flammability	Not readily combustible.
Auto-flammability (deg C)	435
Explosive Properties	None.
Oxidising Properties	None.
Vapour Density (Air = 1)	> 1.00 (solvent, naphtha [petroleum])
Dust Explosion Data	Not applicable
Summary/Other Data	A liquid that is not readily combustible, but, whose vapours may form an explosive mixture with air.

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 > 4.06 mg/l (4 hr). High concentrations of solvent vapour may cause narcosis. Vapour may be irritating to the respiratory tract.
Skin and Eye Contact	Low toxicity; rat dermal LD50 > 5000 mg/kg. Slight and reversible irritant to rabbit skin (labelling not indicated). Not irritating to rabbit eyes. Negative in a guinea pig skin sensitisation test.
Ingestion	Low toxicity; rat oral LD50 > 2000 mg/kg.
Carcinogenicity	Diclofop-methyl; No data. Fenoxaprop-p-ethyl; No carcinogenic symptoms observed.
Genotoxicity	Diclofop-methyl; Not mutagenic. Fenoxaprop-p-ethyl; Not mutagenic.
Reproductive Toxicity	Diclofop-methyl; No data. Fenoxaprop-p-ethyl; No indications of toxic effects were observed in reproduction studies in animals.

12. ECOLOGICAL INFORMATION

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12. ECOLOGICAL INFORMATION (continued)

Mobility	Diclofop-methyl; Immobile in soil. Fenoxaprop-p-ethyl; No leaching potential for fenoxaprop-p-ethyl or its metabolites.
Persistence/Degradability	Diclofop-methyl; Soil DT50 10 to 30 days. (laboratory) Soil DT50 1 to 75 days (field) Fenoxaprop-p-ethyl; Moderately/partially biodegradable. Soil DT50 2 to 17 days. (laboratory) Koc = 8800.
Bio-accumulation	Diclofop-methyl; Kow = 37800 @ pH 5.1. Koc = 10553 to 24407. Fenoxaprop-p-ethyl; Log P = 4.58.
Aquatic Toxicity	Product; 96 hr LC50 onchorhynchus mykiss 0.88 mg/l, leopomis macrochirus 1.26 mg/l, 48 hr EC50 daphnia 1.8 mg/l, 72 hr EC50 algae 3.5 mg/l. Diclofop-methyl; 96 hr LC50 rainbow trout 0.25 mg/l, 48 hr EC50 daphnia 0.23 mg/l, 72 hr EbC50 algae 1.5 mg/l. Fenoxaprop-p-ethyl; 96 hr LC50 rainbow trout 0.57 mg/l, 48 hr EC50 daphnia 0.56 mg/l, 72 hr LC50 algae 0.51 mg/l.
Other Toxicity	Diclofop-methyl; Acute oral LD50 japanese quail > 5000 mg/kg. Low toxicity to the following species; bees and earthworms . Fenoxaprop-p-ethyl; Acute oral LD50 bobwhite quail > 2510 mg/kg, japanese quail > 5000 mg/kg. Bees LD50 > 0.00002 mg/bee.


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	3082
UN Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s. (contains diclofop-methyl 22.7 %)
UN Class	9
UN Packaging Group	III
ADR/RID - Description	3082, Environmentally hazardous substance, liquid, n. o. s (contains diclofop-methyl 22.7 % and petroleum distillates), 9,11*(c), ADR
CDG(CPL) - Description	3082, Environmentally hazardous substance, liquid, n.o.s (contains diclofop-methyl and petroleum distillates). Class: 9. Hazard Identification Number: 90. Packing Group: III.
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	 Irritant
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15. REGULATORY INFORMATION (continued)

Hazard Classification	Xi - Irritant
Designated Name	Corniche (contains diclofop-methyl 250 g/l, fenoxaprop-p-ethyl 20 g/l, fatty alcohol polyglycol ether and solvent, naphtha [petroleum])
R phrases	36-Irritating to eyes.
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	OPERATORS MUST WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate and handling contaminated surfaces. WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) during application. KEEP LIVESTOCK out of treated areas for at least 7 days. DANGEROUS TO FISH OR OTHER AQUATIC LIFE. Do not contaminate surface waters or ditches with chemical or used container. Spray equipment must only be used where the operator's normal position is within a closed cab on a tractor or self-propelled sprayer. WHEN USING DO NOT EAT, DRINK OR SMOKE. WASH HANDS AND EXPOSED SKIN before meals and after work. DO NOT HARVEST CROPS FOR HUMAN OR ANIMAL CONSUMPTION FOR AT LEAST 6 WEEKS AFTER LAST APPLICATION. KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place. WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS. KEEP OUT OF REACH OF CHILDREN.
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'.

16. OTHER INFORMATION

MSDS first issued	7 August 1998
MSDS data revised	29 November 2000
Revisions Highlighted	Main Hazards Extinguishing Media Explosion Limits (%) Flammability Auto-flammability (deg C) Vapour Density (Air = 1) Summary/Other Data Inhalation Skin and Eye Contact Persistence/Degradability Bio-accumulation Aquatic Toxicity Container Disposal UN Proper Shipping Name ADR/RID - Description IMDG - Proper Shipping Name CDG(CPL) - Description R Phrases S Phrases Hazard Classification Control of Pesticides Regulations 1986: Precautions

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16. OTHER INFORMATION (continued)

Footnote

Designated Name

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.
