



## SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

**Kubist Flo**

Version 3 (UK)

Issue date 11/02/2009

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

#### Product information

Trade name : **Kubist Flo**

Usage : herbicide

Company : Nufarm UK Limited  
Wyke Lane  
Wyke  
Bradford  
West Yorkshire BD12 9EJ  
United Kingdom

Telephone : +44 (0)1274 691234  
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Emergency telephone : **+44(0)1274 696603**

### 2. HAZARDS IDENTIFICATION

Toxic to aquatic organisms.  
May cause long-term adverse effects in the aquatic environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** : suspension concentrate (SC)  
containing Ethofumesate 500g/l

Components	CAS-No.	EINECS-No. ELINCS-No.	Symbol(s)	R-phrases(s)	Concentration (w/w)
ethofumesate	26225-79-6	247-525-3	N	R51/53	44.6 %
Propane-1,2-diol	57-55-6	200-338-0		n.c.	5% - 25%

### 4. FIRST AID MEASURES

Eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

Inhalation : Remove casualty to fresh air. Keep at rest. If symptoms persist, call a physician.

Ingestion : Obtain medical attention. Rinse mouth. Do NOT induce vomiting. Keep at rest.



**Notes to physician**

Treatment : Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

- Specific hazards during fire fighting : In the event of fire (NO<sub>x</sub>,CO<sub>x</sub>,SO<sub>2</sub>) may be formed.
- Special protective equipment for fire-fighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.
- Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)
- Extinguishing media which shall not be used for safety reasons : High volume water jet
- Further information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions : Wear personal protective equipment. (see Chapter 8)
- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Sweep up and shovel into suitable containers for disposal.
- Additional advice : Never return spills in original containers for re-use.

**7. HANDLING AND STORAGE**

**Handling**

Safe handling advice : Wear personal protective equipment.

**Storage**

Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place. Avoid exposition to sunlight. Store in a place accessible by authorized persons only. Protéger du gel.

Advice on common storage : Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

**Storage stability**

Storage temperature : > 0 °C



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	occupational exposure limits	Note
ethofumesate	26225-79-6		no classification available
Propane-1,2-diol	57-55-6	474 mg/m <sup>3</sup>	Vapour and particulates

### Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.
- Hand protection : Nitrile rubber, Gloves
- Eye protection : Tightly fitting safety goggles
- Skin and body protection : protective suit
- Hygiene measures : Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.
- Protective measures : Keep working clothes separately.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

- Form : liquid
- Colour : brown
- Odour : characteristic

### Other data

- Density : ca.1.13 g/cm<sup>3</sup>  
at 20 °C
- Water solubility : miscible
- pH : 6 - 7
- Viscosity, dynamic : 80.2 - 99.7 mPa.s  
at 40 °C



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## 10. STABILITY AND REACTIVITY

Conditions to avoid : Extreme temperatures., Exposure to sunlight

Materials to avoid : none

Hazardous decomposition products : Stable under normal conditions.

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat  
Dose: > 2,100 mg/kg

Acute dermal toxicity : LD50 rat  
Dose: > 4,100 mg/kg

Skin irritation : Result: No skin irritation

Eye irritation : Result: No eye irritation

Sensitisation : Result: Did not cause sensitization.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

Toxicity to fish : LC50  
Dose: 68.8 mg/l  
Testing period: 96 h  
Test substance: The toxicological data has been taken from products of similar composition.

Toxicity to daphnia : EC50 Daphnia  
Dose: 93.2 mg/l  
Testing period: 48 h  
Test substance: The toxicological data has been taken from products of similar composition.

Toxicity to algae : EbC50 Toxicity to algae  
Dose: 3.9 mg/l  
Exposure time: 72 h



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Test substance: (Ethofumesate)

### 13. DISPOSAL CONSIDERATIONS

Product : Dispose of product and packaging in accordance with The Green Code. (The Code of Practice for the safe use of Pesticides on Farms and Holdings.) A MAFF Publication.

Contaminated packaging : Do not re-use empty containers.

Dispose empty and triple rinsed container within a local disposing system according to EC directive 94/62/EC

### 14. TRANSPORT INFORMATION

UN-Number : **3082**

Description of the goods : UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.\*(Ethofumesate)

**ADR/RID**

Class : 9  
Packaging group : III

**IMDG**

Class : 9  
Packaging group : III  
Marine pollutant : Y

**IATA-DGR**

Class : 9  
Packaging group : III



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## 15. REGULATORY INFORMATION

Symbol(s)	: N	Dangerous for the environment
R-phrase(s)	: R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S35 S57	This material and its container must be disposed of in a safe way. Use appropriate container to avoid environmental contamination.

## 16. OTHER INFORMATION

Print Date : 02/11/2009

(Alterations are indicated in the left hand margin by: || )

Full text of any R phrases referred to under heading 3:

- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- n.c. - This chemical substance is not classified in the Annex VI of Regulation (EC) No 1272/2008.

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