

DIMILIN FLO**C0246-C0080-UK**N : Dangerous for
the environment**1. Identification of the product and the company**

Name	DIMILIN FLO.
Chemical description active ingredient(s)	: Diflubenzuron : 1-(4-chlorophenyl)-3-(2,6-difluorobenzoyl) urea (IUPAC)
Chemical formula	: C ₁₄ H ₉ Cl F ₂ N ₂ O ₂
Chemical family	: Benzoylurea
GCPF code	: SC (Suspension Concentrate)
Product identification	: Liquid.
Company identification	: CERTIS UK
	1b Mills Way Boscombe Down Business Park, Amesbury Wiltshire. SP4 7RX United Kingdom Telephone 1980 676500 Fax 1980 626555 E-mail: certis@certiseurope.co.uk
Use	: Agriculture (Insecticide)
Anti-poison center - Tel.	: For advice on medical emergencies, fires, spillages or chemical hazards ONLY - phone 0870 190 6777. For further advice for medical professionals - The National Poisons Information Service: Tel: 0870 600 6266 (UK only) or Dublin Tel: 00353 1379 964/379966. For further advice for veterinary surgeons: 020 7635 919. Certis Carechem24 multilingual 24 hours emergency number : +44 (0) 870 190 6777
Print date	: 2 / 8 / 2010

2. Hazards identification

Physical/chemical hazards	: The data available does not support any physical or chemical hazard.
Human health hazards	: Follow all precautions and instructions on the label. to prevent danger for human and environment.
Environmental hazard	: Very toxic to aquatic organisms.

3. Information on ingredients

This product is considered to be hazardous and contains hazardous components.

Substance/preparation	: Preparation
Other information	: See chapter 16 for full text of R phrases
Composition	: Below mentioned are the classified components in the formulation as well as the active ingredient(s).

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DIMILIN FLO**C0246-C0080-UK****3. Information on ingredients (continued)**

Substance name	Value(s)	CAS nr	EINECS nr	EC index	CERTIFICATE
Diflubenzuron	: 40 %	35367-38-5	252-529-3	-	----- N; R50-53
Ethylene glycol	: < 10 %	107-21-1	203-473-3	603-027-00-1	----- Xn; R22
Sodiumdiisopropylnaphthalenesulphonate	: < 5 %	-	-	-	----- Xn; R22 Xi; R36/37

4. First aid measures**Effects and symptoms**

Inhalation : Not known
Ingestion : Not known
Skin contact : Not known
Eye contact : Not known

First-aid measures

First aid general : In the event of any complaints or symptoms, avoid further exposure. Treat symptomatically. If you feel unwell seek medical advice (show the label where possible).

- Inhalation : Move the patient to fresh air. Allow the victim to rest. Obtain medical attention when necessary.

- Ingestion : Wash out mouth with plenty of water. Administer water or milk. Do not induce vomiting. Obtain emergency medical attention.

- Skin contact : Remove contaminated clothing. Wash skin thoroughly with water and soap. Obtain medical attention when necessary.

- Eye contact : Rinse immediately with plenty of water. After 1 - 2 initial minutes remove contact lenses if present. Rinse again with plenty of water. Continue to rinse with the eyelid wide open for at least 15 minutes. Seek medical attention if irritation develops.

Protection of first aiders : Avoid exposure. Wear suitable protective clothing and gloves. Self-contained breathing apparatus with full face shield.

Primary route of exposure : Eyes , skin , oral and Inhalation .

Note to physician : No specific antidote known. Treat symptomatically.

5. Fire - fighting measures

Extinguishing media : Dry chemical powder. Alcohol resistant foam. Carbon dioxide. Water fog.

Unsuitable extinguishing media : Jet of water.

Hazardous thermal (de)composition products : Burning may produce: harmful, toxic and irritating vapours/gases. See also Heading 10 (Stability and reactivity)

Special procedures : Use water spray/fog for cooling of containers. Do not discharge extinguishing waters into the environment.

Protection of fire fighters : Wear suitable protective clothing, gloves, eye/face protection and respiratory protection.

6. Accidental release measures

Personal precautions : The usual precautions for handling chemicals should be observed. In the event of major spillage evacuate room immediately. Contact an expert immediately. Wear suitable protective clothing, rubber gloves, eye/face protection and respiratory protection.

DIMILIN FLO**C0246-C0080-UK****6. Accidental release measures (continued)**

- See also section 8.
- Environmental precautions** : Avoid release to the environment. Clean up any spills , using an absorbent material to collect it. Clean the polluted area with water.
- Methods for cleaning up** : Cover spilled material with sand or an other inert material. Collect spilled material in sealable containers. Remove as chemical waste, according to national or local legislation.
- After spillage and/or leakage** : Cover spilled material with sand or an other inert material.
Remove as chemical waste, according to national or local legislation.
- Technical measures** : Provide adequate ventilation.

7. Handling and storage

- General Handling** : **Read label before use.**
: The usual precautions for handling chemicals should be observed.
Wear suitable protective clothing, rubber gloves, eye/face protection and respiratory protection. Do not breath spray. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. Wash hands and face before eating, drinking or smoking. Keep away from food, drink and animal feeding stuffs. Keep away from heat and direct sunlight. Use only in well ventilated areas.
- Storage** : Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Store and remove according to national or local legislation. Store in a frost-free, dry, cool area.
- Packaging material** : Use original packaging.
- Storage life** : 3 years.

8. Exposure controls / personal protection

- Engineering measures** : Provide adequate ventilation.
- Hygiene measures** : When using, do not eat, drink or smoke. Avoid contact with eyes, skin and clothes.
Wash hands after handling or exposure. Clean clothes thoroughly after use.
- Personal protection**
- **Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment.
 - **Skin protection** : Protective clothing.
 - **Hand protection** : Rubber gloves.
 - **Eye protection** : Wear safety glasses with side guards or face shield.
- Other information** : Do not contaminate water with the product or its container.
Notify the authorities if product enters sewers or public waters.
- MAC [ppm]** : TWA skin 20
STEL skin 40

9. Physical and chemical properties

- Appearance** : Viscous liquid.
- Physical state** : Liquid.
- Colour** : Off-white
- pH value** : 7.1 (1% aqueous suspension)
- Density [kg/mE3]** : 1200
- Solubility in water** : Dispersable

DIMILIN FLO**C0246-C0080-UK****9. Physical and chemical properties (continued)**

Self-ignition [°C]	: No self-ignition
Flash point [°C]	: No data available.
Flammability	: Not flammable.
Melting point [°C]	: No data available.
Boiling point [°C]	: 100 @ 760 mm/Hg
Vapour pressure	: Comparable with water.
Surface tension	: No data available.
Viscosity at 20°C [mPa.s]	: 150
Henry Constante	: No data available.
Log P octanol / water at 20°C	: 3,69 (active ingredient)
Evaporation rate (ether=1)	: No data available.
Other physical properties	: No explosive properties. No oxidising properties

10. Stability and reactivity

Stability	: Stable under normal circumstances. (room temperature and pressure)
Hazardous decomposition products	: Burning may produce e.g. carbon oxides, nitrogen oxides, halogenoxides, hydrocarbons.
Materials to avoid	: Strong acids, bases, oxidizing substances.
Conditions to avoid	: Heat and direct sunlight.
Hazardous polymerization	: Will not occur.

11. Toxicological information

Rat oral LD50 [mg/kg]	: > 5000
Dermal (rat) LD50 [mg/kg]	: > 2000
Rat inhalation LC50 [mg/l/4h]	: > 2.88
Eye irritation	: Not irritating
Skin irritation	: Not irritating
Sensitization	: No sensitization
Carcinogenicity	: Not carcinogenic. (active ingredient)
Mutagenicity	: Not mutagenic (active ingredient)
Teratogenicity	: Not teratogen. (active ingredient)

12. Ecological information

On product	: Very toxic to aquatic organisms.
Ecotoxicity	
LC50-96 Hour - fish [mg/l]	: > 0.2 (active ingredient)
IC50-72H-Algae [mg/l]	: > 0.3 (active ingredient)
EC50-48H-Daphnia Magna mg/l	: < 0.01 (active ingredient)
Biodegradation	: No data available.

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**MATERIAL SAFETY DATA SHEET**

Page : 5

Revision nr : 2

Date : 16 / 7 / 2010

Supersedes : 16 / 7 / 2010

DIMILIN FLO**C0246-C0080-UK****13. Disposal considerations**

Waste-disposal procedures	: Remove waste product to a suitable incinerator. According to national or local legislation.
Waste of residues	: Keep waste separate. Remove as chemical waste, according to national or local legislation.
Contaminated packaging	: Keep waste packaging separate. Remove as chemical waste, according to national or local legislation.
Disposal	: -

14. Transport information

- UN No.	: 3082
Land transport (ADR/RID)	
- Class	: 9 (M6)
- Packing group	: III
- Hazard Label(s)	: 9
- Shipping name	: Environmentally hazardous substance, liquid, n.o.s. (diflubenzuron), 9, III
- Tremcard nr.	: 90
- Special provision 640	: 274
Sea transport (IMO)	
- IMDG code	: 9
- Packing group	: III
- EMS-Nr	: F - A , S - F
- Proper technical name	: Environmentally hazardous substance, liquid, n.o.s.
IMDG-Marine pollution	: Yes
Air transport	
- IATA - Class or division	: 9
- IATA Packing group	: III
Additional information	: Environmentally hazardous substance, liquid, n.o.s. Passenger/cargo : 914 NO LIMIT Cargo only : 914 NO LIMIT

15. Regulatory information

EU Regulations	
EU Classification	This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002:CHIP 3.
Hazard symbol(s)	: N Dangerous for the environment
Warning phrases	
R Phrase(s)	: R50 : Very toxic to aquatic organisms.
Safety phrases	
S Phrase(s)	: S35 : This material and its container must be disposed of in a safe way. S57 : Use appropriate container to avoid environmental contamination.
Symbol(s)	: Dangerous for the environment.
Other information	: Follow all precautions and instructions on the label. to prevent danger for humans and the environment.

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**MATERIAL SAFETY DATA SHEET**

Page : 6

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DIMILIN FLO**C0246-C0080-UK****16. Other information**

Certis code	: WA
Explanation of R-phrases used in section 3	: R22 : Harmful if swallowed. R36 : Irritating to eyes. R37 : Irritating to respiratory system. R50 : Very toxic to aquatic organisms. R53 : May cause long-term adverse effects in the aquatic environment.
Sources of key data used	: - Certis Europe Expert Team (CEET) - Material Safety Data Sheets of the producer. - The Pesticide Manual, 14th ed (ISBN 1 901396 14 2)
Further information	: Revision - See : *
Trade name(s)	: DIMILIN FLO

The contents and format of this MSDS are in accordance with EC Commission Directive 93/112/EEC, 99/45/EC, 2001/58/EC and Reach Regulation 1907/2006.

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