

**EXCALIBUR®**

Version 2.2

Revision Date 16.08.2004

Ref. 130000000485

This SDS adheres to the standards and regulatory requirements of Great Britain and may not meet the regulatory requirements in other countries.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**Product information**

Product name : EXCALIBUR®

Synonyms : B11620009

Use of the Substance/Preparation : herbicide

Company : Du Pont (U.K.) Limited
Wedgwood Way
SG1 4QN Stevenage, Herts SG1 4QN

Telephone : +4401438734450

Telefax :

Emergency telephone number : +44-(0)2871-861.313

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	EC-No.	Classification	Concentration [%]
Flupyrulfuron	144740-54-5		N; R50 -R53	30
Tribenuron methyl	101200-48-0	401-190-1	R43	30

For the full text of the R phrases mentioned in this Section, see Section 16.

3. HAZARDS IDENTIFICATION

May cause sensitization by skin contact.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

General advice : Never give anything by mouth to an unconscious person. For specialist advice physicians should contact the National Poisons Information Service, (24-hr), Tel: 0870-600-6266.

Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician.

Skin contact : Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Consult a physician.

Ingestion : Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Consult a physician.

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5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : water spray, foam, dry chemical, carbon dioxide (CO₂),
- Extinguishing media which must not be used for safety reasons : high volume water jet, (contamination risk),
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers / tanks with spray water.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Wear personal protective equipment.
- Environmental precautions : Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.
- Methods for cleaning up : Clean up promptly by scoop or vacuum. Use approved industrial vacuum cleaner for removal. Shovel into suitable container for disposal. If spill area is on ground near valuable plants or trees, remove 5 cm of top soil after initial clean-up.

7. HANDLING AND STORAGE**Handling**

- Advice on safe handling : Provide appropriate exhaust ventilation at places where dust is formed. Wear personal protective equipment.
- Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

Storage

- Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children.
- Advice on common storage : No materials to be specially mentioned.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Type	Control parameters	Update	Basis
Kaolin	1332-58-7	TWA	2 mg/m ³	2003	EH40 OES

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

- Respiratory protection : Half mask with a particle filter P2 (EN 143).
- Hand protection : Material: nitrile rubber
Glove thickness: 0,4 - 0,7 mm
Wearing time: > 480 min
Do not wear cotton or leather gloves., Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Eye protection : safety glasses with side-shields conforming to EN166
- Skin and body protection : lightweight protective clothing
- Hygiene measures : Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. For environmental protection remove and wash all contaminated protective equipment before re-use. Dispose of rinse water in accordance with local and national regulations.
- Protective measures : All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : solid, dry flowable granules,
- Colour : tan, beige,
- Odour : none,
- pH : 6,3 at 10 g/l (20 °C)
- Flash point : not applicable
- Explosive properties : Not explosive
- Bulk density : 693 kg/m³
- Water solubility : , dispersible

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10. STABILITY AND REACTIVITY

Hazardous decomposition products : hydrogen fluoride, Carbon oxides, nitrogen oxides (NOx)

Hazardous reactions : Dust may form explosive mixture in air. No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : no data available
(Data on the product itself)

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Skin irritation : no data available

Eye irritation : no data available

Sensitization : May cause sensitisation by skin contact.

12. ECOLOGICAL INFORMATION**Further information on ecology**

Additional ecological information : No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

Product : In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Do not re-use empty containers.

14. TRANSPORT INFORMATION**ADR**

Class: 9
Packaging group: III
Classification Code: M7
HI No.: 90
UN-No: 3077

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Labelling No.: 9
 Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Flupyrsulfuron methyl, Tribenuron methyl)

IATA_C

Class: 9
 Packaging group: III
 UN-No: 3077
 Labelling No.: 9MI
 Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Flupyrsulfuron methyl, Tribenuron methyl)

IMDG

Class: 9
 Packaging group: III
 UN-No: 3077
 Labelling No.: 9
 Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Flupyrsulfuron methyl, Tribenuron methyl)

15. REGULATORY INFORMATION**Labelling according to EEC Directive**

Symbol(s) : Xi Irritant
 N Dangerous for the environment

Hazardous components: Flupyrsulfuron
 Tribenuron methyl

R-phrase(s) : R43 May cause sensitization by skin contact.
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s) : S 2 Keep out of reach of children.
 S13 Keep away from food, drink and animal feeding stuffs.
 S20/21 When using, do not eat, drink or smoke.
 S24 Avoid contact with the skin.
 S37 Wear suitable gloves.
 S35 This material and its container must be disposed of in a safe way.
 S57 Use appropriate containment to avoid environmental contamination.

Exceptional labelling of special preparations : To avoid risks to man and the environment, comply with the instructions for use.

16. OTHER INFORMATION**Text of R phrases mentioned in Section 2**



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R43	May cause sensitization by skin contact.
R50	Very toxic to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.

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