



Material Safety Data Sheet

According to EC Regulation 1907/2006

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Revision Number: 0

Revision date:

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

Identification of the substance or preparation

MSDS Ref. No.: 50012
Product name: ProShield

Use of the Substance/Preparation

Recommended use: Herbicide

Company/Undertaking Identification • Scotts UK Professional, Paper Mill Lane, Bramford, Ipswich, Suffolk IP8 4BZ
United Kingdom

Emergency telephone number: • ++44 (0) 1865 407333 (24h)

Email: INFO-MSDS@Scotts.com

2. HAZARDS IDENTIFICATION

Classification

N - Dangerous for the environment

Most important hazards

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

Components	CAS-No	Weight %	EC-No.	Classification
Glyphosate (in the form of isopropylamine salt)	38641-94-0	> 25%	NE	N;R51/53
Diflufenican	83164-33-4	1 - 5%	616-032-00-9	R52/53
Propylene glycol	57-55-6	1 - 5%	200-338-0	NE

NE = Non-Established

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

4. FIRST AID MEASURES

General advice:	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Ingestion:	Do not induce vomiting. Rinse mouth, ingest activated charcoal. Obtain medical attention.
Inhalation:	Move person to fresh air. If symptoms persist, call a physician.
Skin contact:	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. If eye irritation persists, consult a specialist.
Notes to physician:	Treat symptomatically. No specific antidote known. Symptoms: Nausea, vomiting, diarrhoea, salivation. If large amounts are ingested, the following symptoms may occur; abnormally decreased blood volume (hypovolaemia), acidosis, liver disorders, kidney disorders.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water spray, carbon dioxide, dry chemical, chemical foam.

Unsuitable extinguishing media:

High volume water jet

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:

Danger of toxic gases in smoke in case of fire

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus.

Specific methods:

In the event of fire, cool tanks with water spray. Prevent the spread of the fire-fighting media.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Keep people away from and leeward of spill/leak. Use personal protective equipment.

Environmental precautions:

Do not contaminate water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

Methods for cleaning up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling:

Technical measures/precautions:

Ensure adequate ventilation.

Safe handling advice:

Handle in accordance with good industrial hygiene and safety practice.

Storage:

Technical measures/storage conditions:

Store in original container. Keep away from direct sunlight. Keep in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs.

Incompatible products:

No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

Ensure adequate ventilation.

Occupational exposure controls

Personal protective equipment

Respiratory protection:

No personal respiratory protective equipment normally required.

Hand protection:

Nitrile rubber.

Eye/face protection

Safety glasses with side shields or goggles.

Skin and body protection:

Wear standard coverall and type 6 suit.

Hygiene measures

When using, do not eat, drink or smoke. Wash hands and exposed skin after use / handling. Remove and wash contaminated clothing before re-use.

Exposure limit values

Propylene glycol

Norway - 8 h:

25 ppm TWA
79 mg/m³ TWA

UK EH40 WEL:

10 mg/m³ TWA
150 ppm TWA
474 mg/m³ TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State:

Liquid

Appearance:

Suspension

Color:

White

Odor:

Slight

Important Health Safety and Environmental Information

Density: Approximately 1.17g/cm³ at 20°C
Solubility: Miscible

Other information

Viscosity: 30 - 60 mPa.s at 20°C

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Conditions to avoid: Extremes of temperature and direct sunlight.

Materials to avoid: No information available

Hazardous decomposition products: No decomposition if stored normally

11. TOXICOLOGICAL INFORMATION

Component information

Glyphosate (in the form of isopropylamine salt)

LD50/oral/rat = >5,000mg/kg body weight (limit test)

LD50/dermal/rabbit = >5,000mg/kg body weight (limit test)

Diflufenican

LD50/oral/rat = > 2000 mg/kg

LD50/dermal/rat = > 2000 mg/kg

LC50/inhalation/4h/rat = > 2,34 mg/l

Product information**Local effects**

Skin effects: No information available.

Eye effects: No information available.

Inhalation: No information available.

Ingestion: No information available.

12. ECOLOGICAL INFORMATION

Product information

Aquatic toxicity:

Very toxic to aquatic organisms
May cause long-term adverse effects in the aquatic environment

Component information

Glyphosate (in the form of isopropylamine salt)

Ecotoxicity effects

EC50/48h/daphnia = 930mg/l (static)
LC50/96h/rainbow trout = >1,000mg/l (static)
EC50/72h/algae = 72.9mg/l

Diflufenican

Ecotoxicity effects

EC50/48h/daphnia = >0.24mg/l
LC50/96h/Fish (C.carpio) = >0.0985mg/l
EC50/72h/algae = 0.00025mg/l

13. DISPOSAL CONSIDERATIONS**Waste Disposal Methods:**

Do not contaminate ponds, waterways or ditches with chemical or used container. Do not empty into drains. This material and its container must be disposed of as hazardous waste. . Dispose of in accordance with local regulations and national regulations.

Contaminated packaging:

Do not re-use container for any other purpose and dispose of safely .

14. TRANSPORT INFORMATION**Product information****Physical State:**

Liquid

ADR/RID**UN-No:**

3082

Proper shipping name:

Environmentally Hazardous Substance Liquid
N.O.S.(Diflufenican solution)

Hazard Class:

9

Packing group:

III

IATA**UN-No:**

3082

Proper shipping name:

Environmentally Hazardous Substance Liquid
N.O.S.(Diflufenican solution)

Hazard Class:

9

Packing group:

III

IMO / IMDG**UN-No:**

3082

Proper shipping name:

Environmentally Hazardous Substance Liquid
N.O.S.(Diflufenican solution)

Hazard Class:

9

Packing group:

III

15. REGULATORY INFORMATION

Indication of danger:

N - Dangerous for the environment.

To avoid risks to man and the environment, comply with the instructions for use.

N



R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

Registration number UK/Eire

MAPP 14767

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 3

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Reason for revision:

*** Indicates changes since the last revision. This version replaces all previous versions

Prepared by:

Regulatory Affairs Department.

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End of Safety Data Sheet