

Material Safety Data Sheet

According to EC Regulation 1907/2006

Print date: 31-Jul-2012 Revision Number: Revision date: 31-Jul-2012

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 Everris International BV

Identification Nijverheidsweg 1-5; 6422 PD Heerlen (NL)

Tel: ++31 (0) 45-5609100; Fax: ++31 (0) 45-5609190

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

Email INFO-MSDS@EVERRIS.com

2. HAZARDS IDENTIFICATION

Classification

Indication of danger:

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





Most important hazards

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

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.

\$57 - Use appropriate container to avoid environmental contamination.

Revision date: 31-Jul-2012 Page 1 of 7

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

Ingredients	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
Diatomaceous earth	61790-53-2	1 - 5%		NE
Alcohols, C11-14-iso-, C13-rich	68526-86-3	< 1%		N;R50

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). Move out of dangerous area.

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. Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate.. 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.

Revision date: 31-Jul-2012 Page 2 of 7

Specific methods:

In the event of fire, cool tanks with water spray. Prevent the spread of the fire-fighting media. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth..

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

Revision date: 31-Jul-2012 Page 3 of 7

Propylene glycol

Australia TWA 10 mg/m³ TWA

150 ppm TWA 474 mg/m³ TWA 25 ppm TWA 79 mg/m³ TWA

UK EH40 WEL:

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

Diatomaceous earth

Norway - 8 h:

Australia TWA10 mg/m³ TWABelgium - 8 Hr VLE10 mg/m³ TWAFinland - Occupational Exposure Limits - 8 hour5 mg/m³ TWAGermany TRGS900:4 mg/m³ TWA

 Germany (DFG) - MAK
 4 mg/m³ MAK

 Norway - 8 h:
 1.5 mg/m³ TWA

 Spain - Valores Limite Ambientales - VLE
 10 mg/m³ VLA-ED

 3 mg/m³ VLA-ED
 3 mg/m³ VLA-ED

UK EH40 WEL: 1.2mg/m³ (natural respirable dust)

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State: Liquid
Appearance: Suspension
Color: White
Odor: Slight

Important Health Safety and Environmental Information

Boiling point/range: Not applicable Melting point/range: Not applicable

Density: Approximately 1.17g/cm3 at 20°C

Solubility:MiscibleVapour pressureNot applicableVapour densityNot applicable

Explosive properties: Doesn't present explosion hazard

Flammability (solid, gas): Non-flammable

Other information

pH: No information available

10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Extremes of temperature and direct sunlight.

Hazardous decomposition

products

No decomposition if stored normally

Hazardous reactions None reasonably foreseeable

Revision date: 31-Jul-2012 Page 4 of 7

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: Mild skin irritation.

Eye effects: May cause eye irritation with susceptible persons

Inhalation: No information available.

Ingestion: No information available.

Sensitization: No sensitization.

12. ECOLOGICAL INFORMATION

Product information

Aquatic toxicity: Very toxic to aquatic organisms. May cause long-term

adverse effects in the aquatic environment.

Ecotoxicity No ecological information is known on the product

Persistence and degradability

No persistent or cumulative effects were observed

Bioaccumulative potential Does not bioaccumulate

Mobility in soil No information available

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

Revision date: 31-Jul-2012 Page 5 of 7

Ecotoxicity effects EC50/48h/daphnia = >0.24mg/l

LC50/96h/Fish (C.carpio) = >0.0985mg/l

EC50/72h/algae = 0.00025mg/l

Toxicity to aquatic plants EC50 (Scenedesmus subspicatus) 0.015 mg/l

Exposure time: 72 h

Test conducted with a similar formulation.

Toxicity to aquatic plants EC50 (Lemna minor) > 100 mg/l

Exposure time: 7 d

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
ADR - Tunnel Restriction Codes E

<u>IATA</u>

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

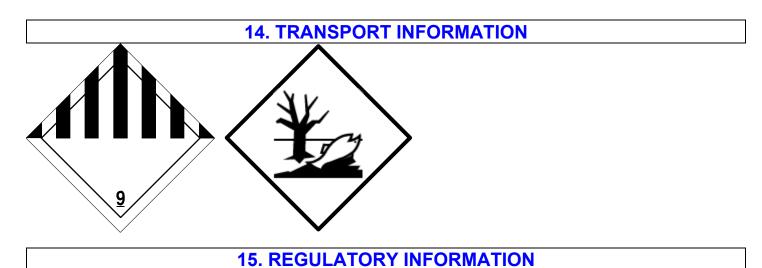
Proper shipping name: Environmentally Hazardous Substance Liquid

N.O.S.(Diflufenican solution)

Hazard Class: 9
Packing group: III

EmS: F-A , S-F

Revision date: 31-Jul-2012 Page 6 of 7



Indication of danger:

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

In accordance with local and national regulations

Registration number UK/Eire: MAPP 14767
GefStoffV (DE): Mot applicable

16. OTHER INFORMATION

Text of R Phrases mentioned in Section 3

R50 - Very toxic to aquatic organisms.

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

Revision date: 31-Jul-2012

Prepared by: Regulatory Affairs Department.

This information contained herein is, to the best of Everris' knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Everris shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, Everris shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product

End of Safety Data Sheet

Revision date: 31-Jul-2012 Page 7 of 7