

Safety Data Sheet

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Version: 2

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name: Proshield
 Product Code: P50100
 Pure substance/mixture: Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use: Herbicide. Restricted to professional users.
 Uses Advised Against: Consumer use [SU 21].

1.3. Details of the supplier of the safety data sheet

Manufacturer

Everris International BV Nijverheidsweg 1-5; 6422 PD Heerlen (NL); Tel: +31 (0) 45-5609100; Fax: +31 (0) 45-5609190

For further information, please contact

INFO-MSDS@EVERRIS.COM

1.4. Emergency telephone number

IN CASE OF AN EMERGENCY CALL: +44 1235 239 670 (24h)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Mixture

Regulation (EC) No 1272/2008 (CLP)

Chronic aquatic toxicity	Category 1 - (H410)
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2.2. Label elements



Signal Word:

Warning

Hazard Statements:

H410 - Very toxic to aquatic life with long lasting effects
 EUH208 - Contains (1,2-Benzisothiazolin-3-one). May produce an allergic reaction.

Precautionary Statements:

P501 - Dispose of contents/ container to an approved waste disposal plant

Other hazards (UN-GHS)

Toxic to aquatic life

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	EC-No.	CAS No	Weight-%	Classification according to	REACH registration
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				Regulation (EC) No. 1272/2008 [CLP]	number
Glyphosate (in the form of isopropylamine salt)	NE	38641-94-0	25 - 40%	Aquatic Chronic 2 (H411)	Exempt
Diflufenican	616-032-00-9	83164-33-4	1 - 5%	Aquatic Chronic 3 (H412)	Exempt
Alcohols, C11-14-iso-, C13-rich	-	68526-86-3	1 - 5%	Aquatic Acute 1 (H400)	01-2119454259-32
1,2-Benzisothiazolin-3-one	220-120-9	2634-33-5	< 0.1%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)	Exempt

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

- General Advice:** First aid measures should be executed by trained personnel only.
- 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.
- Ingestion:** Do NOT induce vomiting. Rinse mouth, ingest activated charcoal. Obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

None under normal processing

4.3. Indication of any immediate medical attention and special treatment needed

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.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical, chemical foam.

Unsuitable Extinguishing Media: High volume water jet.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Advice for firefighters

Use extinguishing agent suitable for type of surrounding fire. In the event of fire and/or explosion do not breathe fumes. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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

For Emergency Responders: Use personal protection recommended in Section 8.

6.2. 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).

6.3. Methods and material for containment and cleaning up

Methods for Containment:

Prevent further leakage or spillage if safe to do so.

Methods for Cleanup:

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.

6.4. Reference to other sections

§ 8, 12, 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

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.

Packaging Materials:

Keep in original container, tightly closed in a safe place.

7.3. Specific end use(s)

Specific use(s)

Fertilizer; www.everris.com; Read and follow label instructions

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.2. Exposure controls

Personal protective equipment

Eye/Face Protection:

Safety glasses with side shields or goggles

Hand protection:

Nitrile rubber (0.26 mm).

Respiratory Protection:

No personal respiratory protective equipment normally required

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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State:

Liquid

Appearance:

suspension

Color:

white.

Odor:

None

Melting Point/Freezing Point:

no data available

Boiling Point/Range:

. no data available.

Flash Point:

. no data available.

Evaporation Rate:

. no data available.

Flammability (solid, gas):	Not flammable
Vapor Pressure:	. no data available.
Vapour density	. no data available.
Relative density	no data available
Water Solubility:	no data available
Solubility(ies)	No data available
Partition Coefficient:	. no data available.
Autoignition Temperature:	no data available
Decomposition temperature:	no data available
Explosive Properties:	Doesn't present explosion hazard. Based on data of ingredients.
9.2. Other information	
VOC Content (%):	. no data available.

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not reactive.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Keep away from catalysts like derivatives of hexavalent chromium and metal halides. Keep away from flammable products (fuels) like charcoal, wood, flour, soot etc.

10.6. Hazardous decomposition products

None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

Product Information

Inhalation Inhalation of dust in high concentration may cause irritation of respiratory system.

Eye contact May cause slight irritation.

Skin Contact May cause irritation.

Ingestion May cause gastrointestinal discomfort if consumed in large amounts.

Information on Toxicological Effects:

Symptoms: No information available

Acute Toxicity

Unknown Acute Toxicity: 65% of the mixture consists of ingredient(s) of unknown toxicity.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glyphosate (in the form of isopropylamine salt)	= 10537 mg/kg (Rat)	= 7500 mg/kg (Rat)	
Diflufenican	= 2 g/kg (Rat)	= 2 g/kg (Rat)	
Alcohols, C11-14-iso-, C13-rich	= 17000 mg/kg (Rat)	> 2600 mg/kg (Rabbit)	
1,2-Benzisothiazolin-3-one	= 1020 mg/kg (Rat)		

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

None known

Serious eye damage/eye irritation	Classification based on individual ingredients of the mixture.
Respiratory or skin sensitization	Classification based on individual ingredients of the mixture.
Germ Cell Mutagenicity	Classification based on individual ingredients of the mixture.
Carcinogenicity	Classification based on individual ingredients of the mixture.
Reproductive Toxicity	Classification based on individual ingredients of the mixture.
STOT - Single Exposure	Classification based on individual ingredients of the mixture.
STOT - Repeated Exposure	Classification based on individual ingredients of the mixture.
Aspiration Hazard	Classification based on individual ingredients of the mixture.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Unknown Aquatic Toxicity:

Do not allow product to enter the environment uncontrolled.

66% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Glyphosate (in the form of isopropylamine salt)	-	2.3: 96 h Pimephales promelas mg/L LC50 static 8.3: 96 h Oncorhynchus mykiss mg/L LC50 static 5.6: 96 h Lepomis macrochirus mg/L LC50 static	-	2.6 - 3.4: 48 h Daphnia magna mg/L EC50 Static
Alcohols, C11-14-iso-, C13-rich	172.2: 96 h Pseudokirchneriella subcapitata mg/L EC50	13.9: 96 h Oncorhynchus mykiss mg/L LC50 static 15.7: 96 h Pimephales promelas mg/L LC50 static 0.2: 96 h Pimephales promelas mg/L LC50	-	37: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

Persistence and Degradability: Non-persistent.

12.3. Bioaccumulative potential

Bioaccumulation: Does not bioaccumulate.

Chemical Name	LOGPOW
1,2-Benzisothiazolin-3-one	1.3

12.4. Mobility in soil

Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No data available.

12.6. Other adverse effects

Mobility: No data available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging: Do not reuse container.
Other Information: Use up product completely. Packaging material is industrial waste.

Section 14: TRANSPORT INFORMATION

IMO / IMDG

14.1
UN-No: 3082
14.2
Proper shipping name: Environmentally Hazardous Substance Liquid
 N.O.S.(Diflufenican)
14.3
Hazard Class: 9
14.4
Packing group: III
Limited Quantity 5L

Chemical Name	IMDG - Marine Pollutants
Glyphosate (in the form of isopropylamine salt) 38641-94-0 (25 - 40%)	Yes
Alcohols, C11-14-iso-, C13-rich 68526-86-3 (1 - 5%)	Yes
1,2-Benzisothiazolin-3-one 2634-33-5 (< 0.1%)	Yes

Marine Pollutant: This material meets the definition of a marine pollutant
Environmental Hazard Yes

14.6
EmS: F-A , S-F
Special Provisions 274, 335, 969

14.7
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No data available

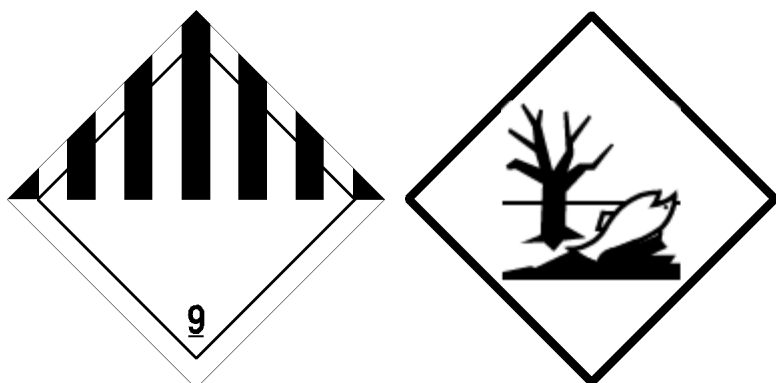
ADR/RID

14.1
UN-No: 3082
14.2
Proper shipping name: Environmentally Hazardous Substance Liquid
 N.O.S.(Diflufenican)
14.3
Hazard Class: 9
14.4
Packing group: III
14.5
Environmental Hazard Yes
14.6
Special Provisions 274, 335, 375, 601
Tunnel restriction code E
Limited Quantity 5L
Environmental Hazard Yes
Environmental Hazard Yes

IATA

14.1
UN-No: 3082
14.2
Proper shipping name: Environmentally Hazardous Substance Liquid
 N.O.S.(Diflufenican)
14.3

Hazard Class:	9
14.4 Packing group:	III
14.5 Environmental Hazard	Yes
14.6 Special Provisions	A97, A158, A197



Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Belgium

Denmark

Danish Sikkerhedsgruppe No data available

France

ICPE Not regulated

Germany

LGK (Germany) No data available
 Water Endangering Class (WGK): 2 (Everris classification)
 Gefahrstoffverordnung (Germany) TRGS 511 Not applied

Component	German WGK Section
Alcohols, C11-14-iso-, C13-rich 68526-86-3 (1 - 5%)	class 2
1,2-Benzisothiazolin-3-one 2634-33-5 (< 0.1%)	class 2

Registration number (UK): MAPP 17525

15.2 Chemical safety assessment

Substance(s) usage is covered according to Reach regulation 1907/2006

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

- H302 - Harmful if swallowed
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H318 - Causes serious eye damage
- H400 - Very toxic to aquatic life
- H411 - Toxic to aquatic life with long lasting effects
- H412 - Harmful to aquatic life with long lasting effects

Key or legend to abbreviations and acronyms used in the safety data sheet

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

ICAO: International Civil Aviation Organization

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PNEC: Predicted No Effect Concentration

DNEL: Derived No-Effect Level

REACH: Registration, Evaluation, Authorization of Chemicals

CLP: EU-GHS; Classification, Labelling and Packaging

OEL: Occupational Exposure Limit

TWA: Time Weighted Average

ATE: Acute Toxicity Estimate

EUH phrase: CLP (EU) specific hazard statement

LD50: Lethal dose, 50%.

LC50: Lethal concentration, 50%.

SVHC: Substance of Very High Concern.

Classification procedure

- Calculation method
- Expert judgment and weight of evidence determination

Key literature references and sources for data

According to EC Regulation 1907/2006 (Reach), Regulation EU No. 2015/830. Regulation (EC) No 1272/2008 (CLP).

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Restrictions on use

Restricted to professional users

Reason for revision

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

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