

Safety Data Sheet

Roundup Ready to Use Path Weedkiller

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Product identifier
MON 76610, 100109, 119410, 100117

1.1.1. Chemical name
Not applicable for a mixture.

1.1.2. Synonyms
None.

1.1.3. CLP Annex VI Index No.
Not applicable.

1.1.4. C&L ID No.
Not available.

1.1.5. EC No.
Not applicable for a mixture.

1.1.6. REACH Reg. No.
Not applicable for a mixture.

1.1.7. CAS No.
Not applicable for a mixture.

1.2. Company/(Head office)
Evergreen Garden Care UK Ltd
1 Archipelago, Lyon Way,
Frimley, Surrey GU16 7ER
United Kingdom

INFO-SDS@evergreengarden.com

1.3. 24 hr Emergency telephone number:
+44 (0) 1865 407 333

Non-Emergency Calls
+44 (0) 1276 401 300

2. HAZARDS IDENTIFICATION

2.1. Classification

2.1.1. Classification according to Regulation (EC) No. 1272/2008 [CLP] (manufacturer self-classification)
Not classified as dangerous.
Hxxx Not applicable.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictogram/pictograms
Not Applicable

Signal word
Not applicable.

Hazard statement/statements
Hxxx Not applicable.

Precautionary statement/statements

P102	Keep out of reach of children.
P234	Keep only in original container
Supplemental hazard information	
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

0% of the mixture consists of ingredient/ingredients of unknown acute toxicity.
0% of the mixture consists of ingredient/ingredients of unknown hazards to the aquatic environment.

2.3.1. Potential environmental effects

2.4. Appearance and odour (colour/form/odour)

Hazy /Liquid, (cloudy) / Chemical

Refer to section 11 for toxicological and section 12 for environmental information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: Not applicable.

3.2 Mixture: Yes.

Composition/information on ingredients

Components	CAS No.	EC No.	EU Index No. / REACH Reg. No. / C&L ID No.	Concentration	Classification
Isopropylamine salt of glyphosate	38641-94-0	254-056-8	015-184-00-8 / - / 02-2119693876-15-0000	1 %	Aquatic Chronic - Category 2; H411; {c}
Pelargonic and related fatty acids	112-05-0	203-931-2	607-197-00-8 / - / -	1 %	Skin corrosion/irritation - Category 1B, Eye damage/irritation - Category 1; H314, 318; {d}
Water and minor formulating ingredients			- / - / -	98 %	Not classified as dangerous.;

Active ingredient

Full text of classification code: See section 16.

4. FIRST AID MEASURES

Use personal protection recommended in section 8.

4.1. Description of first aid measures

4.1.1. Eye contact

Immediately flush with plenty of water. If easy to do, remove contact lenses.

4.1.2. Skin contact

Take off contaminated clothing, wristwatch, jewellery. Wash affected skin with plenty of water. Wash clothes and clean shoes before re-use.

4.1.3. Inhalation

Remove to fresh air.

4.1.4. Ingestion

Immediately offer water to drink. Never give anything by mouth to an unconscious person. Do NOT induce vomiting unless directed by medical personnel. If symptoms occur, get medical attention.

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

4.2.1. Potential health effects

Likely routes of exposure: Skin contact, eye contact, inhalation

Eye contact, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.

Skin contact, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.

Inhalation, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.

Single ingestion: Not expected to produce significant adverse effects when recommended use instructions are followed.

4.2.2. Medical conditions aggravated by exposure:

None.

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

4.3.1. Advice to doctors

This product is not an inhibitor of cholinesterase.

4.3.2. Antidote

Treatment with atropine and oximes is not indicated.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

5.1.1. Recommended: Water, Foam, Dry chemical, Carbon dioxide (CO₂)

5.2. Special hazards

5.2.1. Unusual fire and explosion hazards

None. Minimise use of water to prevent environmental contamination. Environmental precautions: see section 6.

5.2.2. Hazardous products of combustion

Carbon monoxide (CO), Phosphorus oxides (P_xO_y), Nitrogen oxides (NO_x)

5.3. Advice for firefighters

Self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

5.4. Flash point

Does not flash.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions

Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

6.2. Environmental precautions

SMALL QUANTITIES: Low environmental hazard. **LARGE QUANTITIES:** Minimise spread. Keep out of drains, sewers, ditches and water ways.

6.3. Methods for cleaning up

SMALL QUANTITIES: Flush spill area with water. LARGE QUANTITIES: Absorb in earth, sand or absorbent material. Dig up heavily contaminated soil. Collect in containers for disposal. Refer to section 7 for types of containers. Flush residues with small quantities of water. Minimise use of water to prevent environmental contamination.

Refer to section 13 for disposal of spilled material.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Good industrial practice in housekeeping and personal hygiene should be followed. When using do not eat, drink or smoke. Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling or contact. Wash contaminated clothing before re-use. Thoroughly clean equipment after use. Do not contaminate drains, sewers and water ways when disposing of equipment rinse water. Refer to section 13 of the safety data sheet for disposal of rinse water.

Emptied containers retain vapour and product residue. FOLLOW LABELLED WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

7.2. Conditions for safe storage, including any incompatibilities

Compatible materials for storage: stainless steel, fibreglass, plastic, glass lining

Incompatible materials for storage: galvanised steel, unlined mild steel

Minimum storage temperature: 0 °C

Maximum storage temperature: 45 °C

Keep out of reach of children. Keep away from food, drink and animal feed. Keep only in the original container. Partial crystallization may occur on prolonged storage below the minimum storage temperature. If frozen, place in warm room and shake frequently to put back into solution. Minimum shelf life: 2 years.

7.3. Specific end use(s)

Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Airborne exposure limits

Components	Exposure Guidelines
Isopropylamine salt of glyphosate	No specific occupational exposure limit has been established.
Pelargonic and related fatty acids	No specific occupational exposure limit has been established.
Water and minor formulating ingredients	No specific occupational exposure limit has been established.

8.2. Exposure controls

Engineering controls

No special requirement when used as recommended.

Eye protection:

No special requirement when used as recommended.

Skin protection:

If repeated or prolonged contact: Wear chemical resistant gloves. Chemical resistant gloves include those made of waterproof materials such as nitrile, butyl, neoprene, polyvinyl chloride (PVC), natural rubber and/or barrier laminate.

Respiratory protection:

No special requirement when used as recommended.

When recommended, consult manufacturer of personal protective equipment for the appropriate type of equipment for a given application.

9. PHYSICAL AND CHEMICAL PROPERTIES

These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Colour/colour range:	Hazy
Form:	Liquid, (cloudy)
Odour:	Chemical
Odour threshold:	No data.
Physical form changes (melting, boiling, etc.):	
Melting point:	Not applicable.
Boiling point:	No data.
Flash point:	Does not flash.
Explosive properties:	No explosive properties
Auto ignition temperature:	No data.
Self-accelerating decomposition temperature (SADT):	No data.
Oxidizing properties:	none
Specific gravity:	1,018 @ 20 °C
Vapour pressure:	No significant volatility; aqueous solution.
Vapour density:	Not applicable.
Dynamic viscosity:	1,93 mPa·s @ 20 °C
Kinematic viscosity:	1.900 cSt @ 20 °C
Density:	1,018 g/cm ³ @ 20 °C
Solubility:	Water: Soluble
pH:	7,2 @ 20 °C @ 10 g/l
Partition coefficient:	log Pow: < -3,2 @ 25 °C (Glyphosate)
Evaporation rate:	No data.

10. STABILITY AND REACTIVITY

10.1. Reactivity

Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

10.2. Chemical stability

Stable under normal conditions of handling and storage.

10.3. Possibility of hazardous reactions

Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

10.4. Conditions to avoid

None

10.5. Incompatible materials

Incompatible materials for storage: galvanised steel, unlined mild steel
Compatible materials for storage: see section 7.2.

10.6. Hazardous decomposition products

Hazardous products of combustion: see section 5.

11. TOXICOLOGICAL INFORMATION

This section is intended for use by toxicologists and other health professionals.

11.1. Information on toxicological effects

Acute oral toxicity: Based on available data classification criteria are not met.

Acute dermal toxicity: Based on available data classification criteria are not met.

Acute inhalation toxicity: Based on available data classification criteria are not met.

Skin corrosion/irritation: Based on available data classification criteria are not met.

Eye corrosion/irritation: Based on available data classification criteria are not met.

Skin sensitization: Based on available data classification criteria are not met.

Respiratory sensitization: Based on available data classification criteria are not met.

Mutagenicity: Based on available data classification criteria are not met.

Carcinogenicity: Based on available data classification criteria are not met.

Reproductive/Developmental Toxicity: Based on available data classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure: Based on available data classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure: Based on available data classification criteria are not met.

Aspiration hazard: Based on available data classification criteria are not met.

Most important symptoms and effects, both acute and delayed

Potential health effects

Likely routes of exposure: Skin contact, eye contact, inhalation

Eye contact, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.

Skin contact, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.

Inhalation, short term: Not expected to produce significant adverse effects when recommended use instructions are followed.

Single ingestion: Not expected to produce significant adverse effects when recommended use instructions are followed.

Medical conditions aggravated by exposure: None.

Data obtained on product, similar products and on components are summarized below.

Genotoxicity

Not genotoxic.

Similar formulation

Acute oral toxicity

Rat, LD50 (limit test): > 5.000 mg/kg body weight

No mortality. Practically non-toxic.

Acute dermal toxicity

Rat, LD50 (limit test): > 5.000 mg/kg body weight
No mortality. Practically non-toxic.

Skin irritation

Rabbit, 6 animals, OECD 404 test:

Redness, mean EU score: 0,00
Swelling, mean EU score: 0,00
Days to heal: 1
Essentially non irritating.

Eye irritation

Rabbit, 6 animals, OECD 405 test:

Conjunctival redness, mean EU score: 0,50
Conjunctival swelling, mean EU score: 0,06
Corneal opacity, mean EU score: 0,00
Iris lesions, mean EU score: 0,00
Days to heal: 3
Slight irritation.

Acute inhalation toxicity

Rat, LC50, 4 hours, aerosol: > 3,6 mg/L

Maximum attainable concentration. No mortality. This product is not aerosolized during handling or use and is therefore not classified as hazardous under the CLP Regulation (EC 1272/2008). Aerosol particle size (< 10 micron) much lower than the droplet size (> 100 micron) normally achieved during spraying operations.

Skin sensitization

Guinea pig, 9-induction Buehler test:

Negative.

N-(phosphonomethyl)glycine; {glyphosate acid}

Genotoxicity

Not genotoxic.

Carcinogenicity

Not carcinogenic in rats or mice.

Reproductive/Developmental Toxicity

Developmental effects in rats and rabbits only in the presence of significant maternal toxicity.
Reproductive effects in rats only in the presence of significant maternal toxicity.

Pelargonic and related fatty acids

Genotoxicity

Not genotoxic on the basis of weight of evidence analysis.

Carcinogenicity

Not carcinogenic to laboratory animals after dermal administration.

Reproductive/Developmental Toxicity

Not developmentally toxic to laboratory animals.

12. ECOLOGICAL INFORMATION

This section is intended for use by ecotoxicologists and other environmental specialists.

If available, data obtained on similar products and/or on components are summarized below.

12.1 Toxicity

No data.

12.2 Persistence and degradability

No data.

12.3 Bioaccumulative potential

Refer to section 9 for partition coefficient data.

12.4 Mobility in soil

No data.

12.5 Results of PBT and vPvB assessment

Not a persistent, bioaccumulative or toxic (PBT) nor a very persistent, very bioaccumulative (vPvB) mixture.

12.6 Other adverse effects

No data.

12.7 Additional information

If available, data obtained on similar products and/or on components are summarized below.

Similar formulation

Aquatic toxicity, fish

Rainbow trout (*Oncorhynchus mykiss*):

Acute toxicity (limit test), 96 hours, static, LC50: > 100 mg/L

Aquatic toxicity, invertebrates

Water flea (*Daphnia magna*):

Acute toxicity (limit test), 48 hours, static, EC50: > 100 mg/L

Aquatic toxicity, algae/aquatic plants

Duckweed (*Lemna minor*):

Acute toxicity (limit test), 14 days, static, EC50: > 100 mg/L

Duckweed (*Lemna minor*):

Acute toxicity (limit test), 14 days, static, NOEC: 100 mg/L

Green algae (*Scenedesmus subspicatus*):

Acute toxicity, 72 hours, static, ErC50 (growth rate): > 87,7 mg/L

Green algae (*Scenedesmus subspicatus*):

Acute toxicity, 72 hours, static, NOEC: 50 mg/L

Arthropod toxicity

Honey bee (*Apis mellifera*):

Oral, 48 hours, LD50: > 9.742 µg/bee

Honey bee (*Apis mellifera*):

Contact, 48 hours, LD50: 8.309 µg/bee

Soil organism toxicity, invertebrates

Earthworm (*Eisenia foetida*):

Acute toxicity, 14 days, LC50: > 1.000 mg/kg dry soil

N-(phosphonomethyl)glycine: {glyphosate acid}

Avian toxicity

Bobwhite quail (*Colinus virginianus*):

Acute oral toxicity, single dose, LD50: > 3.851 mg/kg body weight

Bioaccumulation

Bluegill sunfish (*Lepomis macrochirus*):

Whole fish: BCF: < 1

No significant bioaccumulation is expected.

Dissipation

Soil, field:

Half life: 2 - 174 days

Koc: 884 - 60.000 L/kg
Adsorbs strongly to soil.

Water, aerobic:

Half life: < 7 days

Pelargonic and related fatty acids

Avian toxicity

Bobwhite quail (*Colinus virginianus*):

Acute oral toxicity, LD50: > 2.250 mg/kg body weight

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product

Follow all local/regional/national/international regulations on waste disposal. Follow current edition of the General Waste, Landfill, and Burning of Hazardous Waste Directives; and the Shipment of Waste Regulation. Keep out of drains, sewers, ditches and water ways. According to the manufacturer self-classification, following Regulation (EC) No. 1272/2008 [CLP], the product can be disposed as a non-hazardous industrial waste. Disposal in a waste incinerator with energy recovery is recommended.

13.1.2. Container

Follow all local/regional/national/international regulations on waste disposal, packaging waste collection/disposal. Follow current edition of the General Waste, Landfill, and Burning of Hazardous Waste Directives; and the Shipment of Waste Regulation. Do NOT re-use containers. Empty packaging completely. Dispose of as non hazardous household waste. Store for collection by approved waste disposal service for household packaging waste. Recycle if appropriate facilities/equipment available. Recycle the non-hazardous container only when a proper control on the end use of the recycled plastic is possible. Suitable for industrial grade recycling only. Do NOT recycle plastic that could end in any human or food contact application. This package meets the requirements for energy recovery. Disposal in a incinerator with energy recovery is recommended.

Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

ADR/RID

- 14.1 UN No.: Not applicable.
- 14.2 Proper Shipping Name (Technical Name if required): Not applicable.
- 14.3 Transport hazard class: Not applicable.
- 14.4 Packing Group: Not applicable.
- 14.5 Environmental hazards: Not applicable.
- 14.6 Special precautions for the user: Not applicable.

IMO

- 14.1 UN No.: Not applicable.
- 14.2 Proper Shipping Name (Technical Name if required): Not applicable.
- 14.3 Transport hazard class: Not applicable.
- 14.4 Packing Group: Not applicable.
- 14.5 Environmental hazards: Not applicable.
- 14.6 Special precautions for the user: Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

IATA/ICAO

- 14.1 **UN No.:** Not applicable.
14.2 **Proper Shipping Name (Technical Name if required):** Not applicable.
14.3 **Transport hazard class:** Not applicable.
14.4 **Packing Group:** Not applicable.
14.5 **Environmental hazards:** Not applicable.
14.6 **Special precautions for the user:** Not applicable.

15. REGULATORY INFORMATION

- 15.1. **Safety, health and environmental regulations/legislation specific for the substance/mixture**
SP1 Do not contaminate water with the product or its container.
- 15.2. **Chemical Safety Assessment**
A Chemical Safety Assessment per Regulation (EC) No. 1907/2006 is not required and has not been performed.
A Risk Assessment has been performed under Regulation EC 1107/2009.

16. OTHER INFORMATION

The information given here is not necessarily exhaustive but is representative of relevant, reliable data.

Follow all local/regional/national/international regulations.

Please consult supplier if further information is needed.

In this document the British spelling was applied.

® Registered trademark.

|| Significant changes versus previous edition.

This Safety Data Sheet has been prepared following the Regulation (EC) No. 1907/2006 (Annex II) as last amended by Regulation (EC) No. 2015/830

Classification of components

Components	Classification
Isopropylamine salt of glyphosate	Aquatic Chronic - Category 2 H411 Toxic to aquatic life with long lasting effects.
Pelargonic and related fatty acids	Skin corrosion/irritation - Category 1B Eye damage/irritation - Category 1 H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
Water and minor formulating ingredients	Not classified as dangerous.

Endnotes:

- {a} EU label (manufacturer self-classification)
{b} EU label (Annex I)
{c} EU CLP classification (Annex VI)
{d} EU CLP (manufacturer self-classification)

Full denomination of most frequently used acronyms. BCF (Bioconcentration Factor), BOD (Biochemical Oxygen Demand), COD (Chemical Oxygen Demand), EC50 (50% effect concentration), ED50 (50% effect dose), I.M. (intramuscular), I.P. (intraperitoneal), I.V. (intravenous), Koc (Soil adsorption coefficient), LC50 (50% lethality concentration), LD50 (50% lethality dose), LDLo (Lower limit of lethal dosage), LEL (Lower Explosion Limit), LOAEC (Lowest Observed Adverse Effect Concentration), LOAEL (Lowest Observed Adverse Effect Level), LOEC (Lowest Observed Effect Concentration), LOEL (Lowest Observed Effect Level), MEL (Maximum Exposure limit), MTD (Maximum Tolerated Dose), NOAEC (No Observed Adverse Effect Concentration), NOAEL (No Observed Adverse Effect Level), NOEC (No Observed Effect Concentration), NOEL (No Observed Effect Level), OEL (Occupational Exposure Limit), PEL (Permissible Exposure Limit), PII (Primary Irritation Index), Pow (Partition coefficient n-octanol/water), S.C. (subcutaneous), STEL (Short-Term Exposure Limit), STOT SE (Specific Target Organ Toxicity, Single Exposure), STOT RE (Specific Target Organ Toxicity, Repeated Exposure), TLV-C (Threshold Limit Value-Ceiling), TLV-TWA (Threshold Limit Value - Time Weighted Average), UEL (Upper Explosion Limit)

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Safety Data Sheet (SDS) Annex

Chemical Safety Report:
Read and follow label instructions.

End of document
