Landscaping (Whitings)

Contents

Whitings Landscape Ltd
Hilary Ward
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Wildmoor Lane
Bromsgrove
Worcestershire
B61 0RJ
01527 836292

Contents

Scope of Works

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OPERATION AND MAINTENANCE MANUAL

SECTION 1.0

SCOPE OF WORKS

CALDER PARK

WAKEFIELD

Provided by:
Whiting Landscape Ltd
Wildmoor Lane
Bromsgrove
Worcestershire
B61 0RJ

Tel: 01527 836292
Email: office@whitinglandscape.co.uk

Site Address:
Calder Park
Peel Avenue
Wakefield
WF2 7UA

Winvic Contract Number: **P21-024**
WLL Contract Number: **7200**

OPERATION AND MAINTENANCE MANUAL

SECTION 1.0

SCOPE OF WORKS

CALDER PARK

WAKEFIELD

Plant Schedule

Type	Plant Name	Potential Hazard
Large Native Trees	Acer campestre	
Large Native Trees	Carpinus betulus	
Large Native Trees	Prunus avium	
Large Native Trees	Quercus robur	Leaves, unleached acorns poisonous
Large Native Trees	Tilia cordata	
Small Native Trees	Acer campestre	
Small Native Trees	Betula pendula	
Small Native Trees	Pinus sylvestris	
Small Native Trees	Sorbus aucuparia	
Specimen Trees	Betula pendula	
Specimen Trees	Pinus nigra	
Specimen Trees	Sorbus aria 'Majestica'	
Native Mixed Hedge	Acer campestre	
Native Mixed Hedge	Cornus sanguinea	
Native Mixed Hedge	Corylus avellana	
Native Mixed Hedge	Crataegus monogyna	Thorns
Native Mixed Hedge	Ilex aquifolium	Spiny leaves
Native Mixed Hedge	Viburnum opulus	
Native Shrub Mix	Corylus avellana	
Native Shrub Mix	Crataegus monogyna	Thorns
Native Shrub Mix	Ilex aquifolium	Spiny leaves
Native Shrub Mix	Prunus spinosa	Thorns
Native Shrub Mix	Viburnum opulus	
Native Tree & Shrub Mix	Acer campestre	
Native Tree & Shrub Mix	Betula pendula	
Native Tree & Shrub Mix	Carpinus betulus	
Native Tree & Shrub Mix	Corylus avellana	
Native Tree & Shrub Mix	Crataegus monogyna	Thorns
Native Tree & Shrub Mix	Ilex aquifolium	Spiny leaves

Type	Plant Name	Potential Hazard
Native Tree & Shrub Mix	Malus sylvestris	Thorns
Native Tree & Shrub Mix	Prunus avium	
Native Tree & Shrub Mix	Prunus spinosa	Thorns
Native Tree & Shrub Mix	Quercus robur	Leaves, unleached acorns poisonous
Native Tree & Shrub Mix	Sorbus aucuparia	
Native Tree & Shrub Mix	Viburnum opulus	

Certificates/Warranties/Guarantees

N/A

Cleaning and Maintenance Regimes

Cleaning and Maintenance Regimes

This maintenance schedule for P21-024 – Calder Park, Wakefield is to be followed from PC date year on year to ensure all plant and equipment is kept within warranty.

Please keep a log of these inspections so that records can be checked should an issue arise.

Code; ✓ **Blue – Recommended** ✓ **Red – To Maintain Warranty**

Item	Daily	Weekly	Monthly	3 Months	6 Months	9 Months	Annually	5 Yearly	Certificates	Regime
Shrubs			✓							Apply fertiliser as per manufacturer's instructions
			✓							Edge up planted areas
							✓			Prune to remove dead/diseased wood and to keep in shape. Make cuts above and sloping away from an outward facing healthy bud, angled so that water will not collect on cut area
Trees							✓			Check tree ties and adjust if necessary.
										Refirm after frost heave or strong winds
							✓			Prune by making cuts above and sloping away from an outward facing healthy bud, angled so that water will not collect on cut area
Native Hedge				✓						Check and repair damage to rabbit protection
Grass										One grass cut March to Mid April / Three grass cuts mid April to mid May / 13 grass cuts mid May to September / Two grass cuts October November
										Shape grass edges at each cut
				✓						Apply fertiliser / herbicide
Wildflower areas							✓			Late April cut down to 100mm

Item	Daily	Weekly	Monthly	3 Months	6 Months	9 Months	Annually	5 Yearly	Certificates	Regime
							✓			Early September cut down to 200mm
										Spot treat aggressive perennial weeds in wildflower areas as necessary
Bark mulch							✓			Top up bark

Data Sheets

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OPERATION AND MAINTENANCE MANUAL

SECTION 4.0

DATA SHEETS

CLADER PARK

WAKEFIELD

Hazardous Plants

Nursery stock – refer to enclosed data – 'hazardous plants'.

Do not ingest or handle potentially hazardous plants.

Where a plant is considered poisonous, gloves should be worn and care should be taken during handling to avoid touching the face, particularly around the mouth. Wash hands immediately after handling and always before eating/drinking.

Where a plant is considered irritant, gloves should be worn and care should be taken during handling to avoid the plant coming into contact with exposed skin. Wash hands immediately after handling and always before eating/drinking.

Care should be taken when handling thorn bearing plants to avoid cuts and scratches, particularly to the eyes.

No other hazards identified throughout the landscape installation process including the presence of asbestos, contaminated land, water bearing strata or buried services. However, the landscape contractor is not responsible for the introduction of such hazards by other parties following completion of the landscape installation.

Roundup Provantage 480

For the control of weeds / vegetation throughout the landscape scheme.

COSHH Risk Assessment No: CA011

Chemical Name: Round Up Provantage	Location: Calder Park, Wakefield Contract Number: 7200
Name of substance, manufacturer and safety data sheet reference.	Substance: Round Up Provantage 480, Manufacturer: MONSANTO Europe N.V., Haven 627, Scheldelaan 460, B-2040 Antwerp, Belgium Emergency Telephone: Belgium +32 (0)3 568 51 23 SDS Ref: version: 1.1. 1, 6th September 2016.
Describe the activity or process *(Include how long and how often this is carried out and the quantity of substance used. A copy of a current safety data sheet (SDS) for the substance should be attached to this assessment and cross-referenced when completing it).*	Application of herbicide form the treatment of existing weed growth for maintenance purposes and to proposed new landscaping areas. Appropriate for selective use in the aquatic environment. A maximum of 6 hours per day for 2-3 days per week.
Specify where the activity or process is being carried out	External landscaping areas.
Identify the persons at risk:	Employees *(including trainees)* ■ | Contractors ■ | Public *(including students)* ☐

Hazard(s)

Physical Nature of Hazard - SDS Section 9.1

Liquid	Dust	Solid	Fume	Mist	Vapour	Gas	Other (state) _____
■	☐	☐	☐	☐	☐	☐	☐

Classification of Hazard - SDS Section 2.2

 Moderate hazard	 Acutely toxic	 Corrosive	 Health hazard	 Flammable	 Oxidising	 Explosive	 Gas under pressure	 Harmful to the aquatic environment
☐	☐	☐	☐	☐	☐	☐	☐	☐

Risk(s)

Signal Word - SDS Section 2.2	Add Hazard Statement(s) - SDS Section 2.2
Warning ☐ **Danger** ☐	Not classified as dangerous **Precautionary Statements** 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.

Route of Exposure - SDS Section 4.1

Inhalation	Ingestion	Skin Contact	Contact with Eyes	Other (state)_____
■	■	■	■	☐

Risks to Health – Most Important Symptoms and Effects - *Refer to safety data sheet (attached)* SDS Section 4.2

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

Workplace Exposure Limits (WELs) *please indicate n/a where not applicable* - SDS Section 8.1	
Long-term exposure level (8hrTWA): No specific occupational exposure limit has been established.	Short-term exposure level (15 minutes):

Control Measures: *(for example extraction, ventilation, training, supervision)* - SDS Section 8.2

Engineering controls
No special requirement when used as recommended.

Recommendations for personal protective equipment
Eye protection: If there is significant potential for contact: Wear chemical goggles.

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.

First Aid: Recommended Actions - SDS Section 4.1

Eye contact: Immediately flush with plenty of water. If easy to do, remove contact lenses. If there are persistent symptoms, obtain medical advice.

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

Inhalation: Remove to fresh air.

Ingestion: Immediately offer water to drink. Do NOT induce vomiting unless directed by medical personnel. If symptoms occur, get medical attention.

Is health surveillance or monitoring required?	Yes ☐	No ■

Personal Protective Equipment *(state type and standard)* - SDS Section 8.2

☐ Dust Mask		☐ Visor	
☐ Respirator	No special requirement when used as recommended.	■ Goggles	Safety glasses.
■ Gloves	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.	■ Overalls	Suitable workwear.
■ Footwear	Suitable footwear is to be worn which conforms to European (EN) standards.	■ Other	H-viz.

Storage Arrangements - SDS Section 7.2

Minimum storage temperature: -15 °C
Maximum storage temperature: 50 °C
Compatible materials for storage: stainless steel, fibreglass, plastic, glass lining

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: 5 years.

Disposal of residual waste and Containers - SDS Section 13.1 and guidance

Hazardous Waste ☐ Skip ☐ Return to Depot ☐ Return to Supplier ☐ Other (state) ■

(If Other Please State): **Product:** Keep out of drains, sewers, ditches and water ways. 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. Disposal in a waste incinerator with energy recovery is recommended.
According to the manufacturer self-classification, following Regulation (EC) No. 1272/2008 [CLP], the product can be disposed as a non-hazardous industrial waste.
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.
Triple or pressure rinse empty containers. Pour rinse water into spray tank. Properly rinsed container can be disposed as a non hazardous industrial waste. Store for collection by approved waste disposal service. 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.

Firefighting measures, accidental release measures, toxicological information and ecological information are provided in the safety data sheet (attached).

Is exposure adequately controlled?	Yes ■	No ☐

Risk Rating After Implementation of Control Measures (see guidance)

High ☐ **Medium** ☐ **Low** ■

Assessed by: Andy Ellett (Tech IOSH, AIIRSM) Initiative Quality & Safety Ltd Date: 02/01/2020	Reviewed by: L. Buckerfield Date: 02/01/2021	Planned Review Date: 02/01/2022

I have read the above COSHH assessment and I'm aware of my responsibilities regarding the product.

Date	Name (Print)	Signature

MONSANTO Europe S.A./N.V.

Safety Data Sheet
Commercial Product

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Product identifier

Roundup® ProVantage

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. Product use
Herbicide

1.3. Company/(Sales office)
MONSANTO Europe S.A./N.V.
Haven 627, Scheldelaan 460, B-2040
Antwerp, Belgium
Telephone: +32 (0)3 568 51 11
Fax: +32 (0)3 568 50 90
E-mail:
safety.datasheet@monsanto.com

1.4. Emergency numbers
Telephone: Belgium +32 (0)3 568 51 23

2. HAZARDS IDENTIFICATION

2.1. Classification

2.1.1. Classification according to Regulation (EC) No. 1272/2008 [CLP] - U.K.
Not classified as dangerous.

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

2.2.1. Precautionary statement/statements U.K.

P234	Keep only in original container

2.2.2. Supplemental hazard information U.K.

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

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

2.4. Appearance and odour (colour/form/odour):
Brown /Liquid / Amino odour

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredient
Potassium salt of N-(phosphonomethyl)glycine; {Potassium salt of glyphosate}

Composition

Components	CAS No.	EC No.	EU Index No. / REACH Reg. No. / C&L ID No.	% by weight (approximate)	Classification
Potassium salt of glyphosate	70901-12-1	933-437-9	015-184-00-8 / - / 02-2119694167-27-0000	44	Aquatic Chronic - Category 2; H411; { c}
Alkylpolyglycoside	68515-73-1	500-220-1	- / 01-2119488530-36 / -	<20	Eye damage/irritation - Category 1; H318; { d}
Nitroryl	226563-63-9		- / - / -	<3	Acute toxicity - Category 4, Skin corrosion/irritation - Category 2, Eye damage/irritation - Category 1, Aquatic Chronic - Category 3; H302+332, 315, 318, 412
Water and minor formulating ingredients			- / - / -	>33	Not classified as dangerous.;

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. If there are persistent symptoms, obtain medical advice.

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. 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, inhalation, eye contact, ingestion
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

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 (PxOy), nitrogen oxides (NOx)

5.3. Fire fighting equipment

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

5.4. Flash point

Does not flash.

6. ACCIDENTAL RELEASE MEASURES

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

6.1. Personal precautions

Use personal protection recommended 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. Notify authorities.

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

Good industrial practice in housekeeping and personal hygiene should be followed.

7.1. Precautions for safe handling

Avoid contact with eyes.
When using do not eat, drink or smoke.
Wash hands thoroughly after handling or contact.
Do not contaminate drains, sewers and water ways when disposing of equipment rinse water.
Emptied containers retain vapour and product residue.
Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

7.2. Conditions for safe storage

Minimum storage temperature: -15 °C
Maximum storage temperature: 50 °C
Compatible materials for storage: stainless steel, fibreglass, plastic, glass lining
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: 5 years.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Airborne exposure limits

Components	Exposure Guidelines
Potassium salt of glyphosate	No specific occupational exposure limit has been established.
Alkylpolyglycoside	No specific occupational exposure limit has been established.
Nitroryl	No specific occupational exposure limit has been established.
Water and minor formulating ingredients	No specific occupational exposure limit has been established.

8.2. Engineering controls

No special requirement when used as recommended.

8.3. Recommendations for personal protective equipment

8.3.1. Eye protection:

If there is significant potential for contact:Wear chemical goggles.

8.3.2. 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.

8.3.3. 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:	Brown
Odour:	Amino odour
Form:	Liquid
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:	> 600 °C
Self-accelerating decomposition	No data.

temperature (SADT):	
Oxidizing properties:	No data.
Specific gravity:	1,3426 @ 20 °C / 4 °C
Vapour pressure:	No significant volatility; aqueous solution.
Vapour density:	Not applicable.
Evaporation rate:	No data.
Dynamic viscosity:	107,2 mPa·s @ 20 °C
Kinematic viscosity:	79,83 cSt @ 20 °C
Density:	1,3426 g/cm3 @ 20 °C
Solubility:	Completely miscible.
pH:	4,3 @ 10 g/l
Partition coefficient:	log Pow: -3,2 @ 25 °C (glyphosate)

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

10.5. Hazardous decomposition
Thermal decomposition: Hazardous products of combustion: see section 5.

11. TOXICOLOGICAL INFORMATION

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

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

Data obtained on product and components are summarized below.

Acute oral toxicity
Rat, LD50: > 2.000 mg/kg body weight
No mortality.

Acute dermal toxicity
Rat, LD50: > 2.000 mg/kg body weight
No mortality.

Skin irritation
Rabbit, 3 animals, OECD 404 test:
Redness, individual EU scores: 0,3; 0,0; 0,0
Swelling, individual EU scores: 0,0; 0,0; 0,0
Days to heal: 5
Essentially non irritating.

Eye irritation
Rabbit, 3 animals, OECD 405 test:
Conjunctival redness, individual EU scores: 0,7; 1,0; 0,7
Conjunctival swelling, individual EU scores: 1,0; 1,0; 0,7
Corneal opacity, individual EU scores: 0,0; 0,0; 0,0
Iris lesions, individual EU scores: 0,0; 0,0; 0,0
Days to heal: 3

Slightly irritating to eyes but not sufficient for classification.
Moderate irritation.

Skin sensitization

Guinea pig, 9-induction Buehler test:
Negative.
No skin sensitization

Genotoxicity
Not genotoxic.

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.

12. ECOLOGICAL INFORMATION

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

Aquatic toxicity, algae/aquatic plants

Green algae (Selenastrum capricornutum):
Acute toxicity, 72 hours, static, ErC50 (growth rate): 118 mg/L

Duckweed (Lemna gibba):
Acute toxicity, 7 days, static, ErC50 (frond number): 74,3 mg/L

Duckweed (Lemna gibba):
Acute toxicity, 7 days, static, NOEC (growth rate): 19,1 mg/L

Arthropod toxicity

Honey bee (Apis mellifera):
Contact, 48 hours, LD50: > 279 µg/bee

Honey bee (Apis mellifera):
Oral, 48 hours, LD50: > 282 µg/bee

Soil organism toxicity, invertebrates

Earthworm (Eisenia foetida):
Acute toxicity, 14 days, LC50: > 10.000 mg/kg dry soil

Soil organism toxicity, microorganisms

Nitrogen and carbon transformation test:
27 L/ha, 28 days: Less than 25% effect on nitrogen or carbon transformation processes in soil.

Similar formulation

Aquatic toxicity, fish

Rainbow trout (Oncorhynchus mykiss):
Acute toxicity, 96 hours, static, LC50: > 1.039 mg/L

Aquatic toxicity, invertebrates

Water flea (Daphnia magna):
Acute toxicity, 48 hours, static, EC50: 243 mg/L

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

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product

Keep out of drains, sewers, ditches and water ways. 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. Disposal in a waste incinerator with energy recovery is recommended. According to the manufacturer self-classification, following Regulation (EC) No. 1272/2008 [CLP], the product can be disposed as a non-hazardous industrial waste.

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. Triple or pressure rinse empty containers. Pour rinse water into spray tank. Properly rinsed container can be disposed as a non hazardous industrial waste. Store for collection by approved waste disposal service. 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.

Not regulated for transport under ADR/RID, IMO, or IATA/ICAO Regulations

15. REGULATORY INFORMATION

15.1. Other Regulatory Information

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.
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

Data provided in this Safety Data Sheet are for the product as supplied unless otherwise indicated.

Classification of components

Components	Classification
Potassium salt of glyphosate	Aquatic Chronic - Category 2 H411 Toxic to aquatic life with long lasting effects.
Alkylpolyglycoside	Eye damage/irritation - Category 1 H318 Causes serious eye damage.
Nitroryl	Acute toxicity - Category 4 Skin corrosion/irritation - Category 2 Eye damage/irritation - Category 1 Aquatic Chronic - Category 3 H302+332 Harmful if swallowed or if inhaled H315 Causes skin irritation. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.
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)

Safety Data Sheet (SDS) Annex

Chemical Safety Report:
Read and follow label instructions.

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