SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006



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## **GARDEN ROOTKILL WEEDKILLER**

Version 2 / GB Revision Date: 15.10.2013 102000024545 Print Date: 14.08.2014

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name GARDEN ROOTKILL WEEDKILLER

Product code (UVP) 79998228

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

**Use** Herbicide

1.3 Details of the supplier of the safety data sheet

**Supplier** Bayer CropScience Limited

230 Cambridge Science Park

Milton Road Cambridge

Cambridgeshire CB4 0WB

United Kingdom

Telephone +44(0)1223 226500 Telefax +44(0)1223 426240

Responsible Department Email: gardening.adviser@bayergarden.co.uk

1.4 Emergency telephone no.

Emergency telephone no. 0800-220876 (UK 24 hr)

+44(0)1635-563000 (Overseas 24 hr)

### **SECTION 2: HAZARDS IDENTIFICATION**

### 2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Not classified, the classification criteria are not met.

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Not classified, the classification criteria are not met.

#### 2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

#### **Hazard statements**

EUH401 To avoid risks to human health and the environment, comply with the instructions for

use.

### **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

#### 2.3 Other hazards

No other hazards known.

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### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### 3.2 Mixtures

### **Chemical nature**

Any other liquids (AL)

Glyphosate 7 g/l as isopropylamine salt

### **Hazardous components**

R-phrase(s) according to EC directive 67/548/EEC

Hazard statements according to Regulation (EC) No. 1907/2006

Name	CAS-No. / EC-No.	Classification		Conc. [%]
		EC Directive 67/548/EEC	Regulation (EC) No 1272/2008	
Glyphosate, isopropylamine salt	38641-94-0 254-056-8	N; R51/53	Aquatic Chronic 2, H411	0.69

### **Further information**

For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

### **SECTION 4: FIRST AID MEASURES**

### 4.1 Description of first aid measures

**Inhalation** Move to fresh air. Keep patient warm and at rest.

**Skin contact** Wash off immediately with soap and plenty of water. Get medical

attention if irritation develops and persists.

**Eye contact** Remove contact lens and rinse eyes immediately with plenty of water,

also under the eyelids, for at least 15 minutes. Get medical attention if

irritation develops and persists.

**Ingestion** DO NOT induce vomiting unless directed to do so by a physician or

poison control center. Rinse out mouth and give water in small sips to

drink. Keep patient warm and at rest.

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

**Symptoms** Local:, To date no symptoms are known.

Systemic:, Skin, eye and mucous membrane irritation, Salivation,

Nausea, Vomiting, Diarrhoea

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

Treatment Local treatment: Initial treatment: symptomatic.

Systemic treatment: Initial treatment: symptomatic. In the event of a mouthful or more being ingested, the following measures should be considered: Activated charcoal and cathartics like sorbitol or magnesium

sulphate should be given. Monitor: fluid balance.

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### **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable** High volume water jet

5.2 Special hazards arising

from the substance or

mixture

Dangerous gases are evolved in the event of a fire.

5.3 Advice for firefighters

Special protective

equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes. In the event

of fire, wear self-contained breathing apparatus.

**Further information** 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.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with spilled product or contaminated surfaces. When **Precautions** 

dealing with a spillage do not eat, drink or smoke.

6.2 Environmental

precautions

Do not allow to get into surface water, drains and ground water. If spillage enters drains leading to sewage works inform local water company immediately. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder,

> universal binder, sawdust). Keep in suitable, closed containers for disposal. Clean floors and contaminated objects with plenty of water.

Additional advice Check also for any local site procedures.

6.4 Reference to other

sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

### **SECTION 7: HANDLING AND STORAGE**

### 7.1 Precautions for safe handling

Advice on safe handling No specific precautions required when handling unopened

packs/containers; follow relevant manual handling advice. Ensure

adequate ventilation.

Advice on protection against fire and explosion No special precautions required.

**Hygiene measures** When using, do not eat, drink or smoke. Wash hands immediately after

work, if necessary take a shower.

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### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in original container and out of the reach of children, preferably in a locked storage area. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Protect from

freezing.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

**7.3 Specific end uses** Refer to the label and/or leaflet.

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1 Control parameters

No control parameters known.

### 8.2 Exposure controls

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

### Personal protective equipment

In normal use conditions personal protective equipment is not deemed to be necessary. If there is a potential for excessive exposure the following applies:

Respiratory protection Respiratory protection is not required under anticipated

circumstances of exposure.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's

instructions regarding wearing and maintenance.

Hand protection Wear CE Marked (or equivalent) nitrile rubber gloves (minimum

thickness of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

**Eye protection** Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

**Skin and body protection** Wear standard coveralls and Category 3 Type 6 suit.

If there is a risk of significant exposure, consider a higher protective

type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and

should be professionally laundered frequently.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1 Information on basic physical and chemical properties

Form Liquid
Colour colourless

pH 4.7 - 5.3 at 100 % (23 °C)

Density ca. 1.00 g/cm³ at 20 °C

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Water solubility soluble

Partition coefficient: n-

octanol/water

Glyphosate: log Pow: -2.9

**9.2 Other information** Further safety related physical-chemical data are not known.

### **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity

**Thermal decomposition** Stable under normal conditions.

**10.2 Chemical stability** Stable under recommended storage conditions.

10.3 Possibility of No hazardous reactions when stored and handled according to

**hazardous reactions** prescribed instructions.

**10.4 Conditions to avoid** Extremes of temperature and direct sunlight.

**10.5 Incompatible materials** Bases, Store only in the original container.

10.6 Hazardous

decomposition products

No decomposition products expected under normal conditions of use.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### 11.1 Information on toxicological effects

Acute oral toxicity ATE > 2,000 mg/kg

ATE – acute toxicity estimate

Acute inhalation toxicity ATE > 5.0 mg/l

ATE – acute toxicity estimate

Acute dermal toxicity ATE > 2,000 mg/kg

ATE - acute toxicity estimate

Skin irritationNo skin irritation (rabbit)Eye irritationNo eye irritation (rabbit)

**Sensitisation** Non-sensitizing. (guinea pig)

### Assessment repeated dose toxicity

Glyphosate did not cause specific target organ toxicity in experimental animal studies.

### **Assessment Mutagenicity**

Glyphosate was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### **Assessment Carcinogenicity**

Glyphosate was not carcinogenic in lifetime feeding studies in rats and mice.

### Assessment toxicity to reproduction

Glyphosate did not cause reproductive toxicity in a two-generation study in rats.

### Assessment developmental toxicity

Glyphosate did not cause developmental toxicity in rats and rabbits.

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### **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity

**Toxicity to fish** LC50 (Pimephales promelas (fathead minnow)) 97 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient glyphosate-

isopropylamine salt.

Toxicity to aquatic invertebrates

EC50 (Water flea (Daphnia magna)) 930 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient glyphosate-

isopropylamine salt.

Toxicity to aquatic plants EC50 (Scenedesmus subspicatus) 72.9 mg/l

Exposure time: 72 h

The value mentioned relates to the active ingredient glyphosate-

isopropylamine salt.

12.2 Persistence and degradability

**Biodegradability** Glyphosate:

not rapidly biodegradable

Koc Glyphosate: Koc: 884 - 60000

12.3 Bioaccumulative potential

**Bioaccumulation** Glyphosate: Bioconcentration factor (BCF) < 1

Does not bioaccumulate.

12.4 Mobility in soil

**Mobility in soil** Glyphosate: Slightly mobile in soils

12.5 Results of PBT and vPvB assessment

**PBT and vPvB assessment** Glyphosate: This substance is not considered to be persistent,

bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

Additional ecological

information

No other effects to be mentioned.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

### 13.1 Waste treatment methods

**Product** Do not empty into drains.

Dispose of unused product in its container at a household waste site

(civic amenity site).

Contact your local council (local authority) for details.

**Contaminated packaging** Dispose of empty container in the dustbin.

Follow advice on product label and/or leaflet.

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Waste key for the unused product

020108 agrochemical waste containing dangerous substances

### **SECTION 14: TRANSPORT INFORMATION**

Segregation group according to IMDG SEGREGATION GROUP 2 - AMMONIUM COMPOUNDS

# According to ADN/ADR/UK 'Carriage' Regulations/RID/IMDG/IATA not classified as dangerous goods.

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

**14.1 – 14.5** Not applicable.

### 14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

# 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No transport in bulk according to the IBC Code.

### **SECTION 15: REGULATORY INFORMATION**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK and Northern Ireland Regulatory References

This material may be subject to some or all of the following regulations (and any subsequent amendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.

### **Transport**

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348)

Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367) Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786)

### Supply and Use

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716) Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009

Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677)

EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits

Control of Pesticide Regulations 1986

Dangerous Substances and Explosive Atmospheres Regulations 2002

### **Waste Treatment**

Environmental Protection Act 1990. Part II

Environmental Protection (Duty of Care) Regulations 1991

The Waste Management Licensing Regulations 1994 (as amended)

Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended) Landfill Directive

Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)

Water Resources Act 1991

Anti-Pollution Works Regulations 1999

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#### **Further information**

WHO-classification: U (Unlikely to present acute hazard in normal use)

### 15.2 Chemical Safety Assessment

A chemical safety assessment is not required.

### **SECTION 16: OTHER INFORMATION**

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

environment.

#### Text of the hazard statements mentioned in Section 3

H411 Toxic to aquatic life with long lasting effects.

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Reason for Revision: Safety Data Sheet according to Regulation (EU) No. 453/2010.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.