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## **ROUNDUP BIACTIVE GL**

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

1.1 Product identifier

Trade name ROUNDUP BIACTIVE GL

Product code (UVP) 62289358

**UFI** FN12-7076-K00Q-0UV6 (for Northern Ireland only)

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

**Use** Herbicide

**Restrictions on use** See product label for restrictions.

1.3 Details of the supplier of the safety data sheet

**Supplier** Bayer CropScience Limited

230 Cambridge Science Park

Milton Road

CB4 0WB Cambridge United Kingdom

**Telephone** +44(0)1223 226500

**Telefax** +44(0)1223 426240

FOR IRELAND & Bayer CropScience Ltd

NORTHERN IRELAND: Bayer Ltd

1st Floor, The Grange Offices The Grange, Brewery Road

Stillorgan Co. Dublin A94 H2K7 Ireland

**Telephone** +353 1 216 3300

Responsible Department Email: gb-bcs-crop-regulatory-affairs@bayer.com

1.4 Emergency telephone no.

**Emergency telephone no.** 0330 678 3382 (24 hr)

For Medical Professionals:

You can also contact the relevant NPIS.

For Members to the Public:

You can contact NHS111 (for GB) or your local GP (for Northern

Ireland)

National Poisons Information Centre UK: 0344 892 0111 National Poisons Information Centre Dublin: +353 1 809 2166

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#### **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.

Long-term (chronic) aquatic hazard: Category 2

H411 Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

### Labelling according to specific UK regulations:

Hazard label for supply/use required.



#### **Hazard statements**

H411 Toxic to aquatic life with long lasting effects.

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

use.

#### **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P391 Collect spillage.

P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or

collection site except for empty clean containers which can be disposed of as non-

hazardous waste.

#### 2.3 Other hazards

No additional hazards known beside those mentioned.

Potassium salt of 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).

Ecological information: The substance/mixture does not contain components considered to

have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to

have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

### 3.2 Mixtures

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#### **Chemical nature**

Soluble concentrate (SL)

Potassium salt of Glyphosate 441 g/l

#### **Hazardous components**

Hazard statements according to Regulation (EC) No. 1272/2008

Name	CAS-No. /	Classification	Conc. [%]
	EC-No. / REACH Reg. No.	REGULATION (EC) No 1272/2008	
Potassium salt of glyphosate	70901-12-1	Aquatic Chronic 2, H411	35
Alkyl polysaccharide	68515-73-1 01-2119488530-36-XXXX	Eye Dam. 1, H318	> 1.0 - < 10.0
Nitroryl	226563-63-9	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	> 1.0 - < 5.0

#### **Further information**

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### Particle characteristics

This substance/ mixture does not contain nanoforms

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

### 4.1 Description of first aid measures

General advice Move out of dangerous area. Place and transport victim in stable

position (lying sideways). Remove contaminated clothing immediately

and dispose of safely.

**Inhalation** Move to fresh air. Keep patient warm and at rest. Call a physician or

poison control center immediately.

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. Take

off contaminated clothing and shoes immediately. Get medical

attention if irritation develops and persists.

**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 eye. Get medical attention if irritation

develops and persists.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Call a physician or poison

control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

**Symptoms** To date no symptoms are known.

4.3 Indication of any immediate medical attention and special treatment needed

**Risks** This product is not a cholinesterase inhibitor.

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**Treatment** Treatment with atropine and oximes is not indicated. Appropriate

supportive and symptomatic treatment as indicated by the patient's

condition is recommended. There is no specific antidote.

#### **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

In the event of fire the following may be released:, Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Oxides of

phosphorus

**5.3 Advice for firefighters** 

Special protective equipment for firefighters

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

of fire, wear self-contained breathing apparatus.

**Further information**Contain the spread of the fire-fighting media. Do not allow water to

come into direct contact with the product.

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

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

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

personal protective equipment.

**6.2 Environmental** 

precautions

Do not allow to get into surface water, drains and ground water.

#### 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). Collect and transfer the product

into a properly labelled and tightly closed container. Clean

contaminated floors and objects thoroughly, observing environmental

regulations.

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

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Advice on safe handling Avoid contact with skin, eyes and clothing. Use only in area provided

with appropriate exhaust ventilation.

Hygiene measures Wash hands thoroughly with soap and water after handling and before

eating, drinking, chewing gum, using tobacco, using the toilet or

applying cosmetics.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing. Keep working clothes separately. Garments that cannot be

cleaned must be destroyed (burnt).

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

Requirements for storage areas and containers

Store in original container. Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in a place accessible by authorized persons only. Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode. Protect from freezing. Partial crystallization may occur on prolonged storage below the minimum storage temperature. Freezing will affect the physical condition but will not damage the material. Thaw and mix

before using.

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

**7.3 Specific end use(s)** Refer to the label and/or leaflet.

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

## 8.1 Control parameters

No known occupational limit values.

### 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 and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**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 Please observe the instructions regarding permeability and

breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the

contact time.

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> Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be

removed.

Material Nitrile rubber Rate of permeability > 480 min Glove thickness > 0.4 mm

Directive Protective gloves complying with EN

374.

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.

If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully

remove and dispose of as advised by manufacturer.

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

## 9.1 Information on basic physical and chemical properties

**Form** Liquid

Colour amber to dark brown

Odour amine-like

**Odour Threshold** No data available Melting point/ range No data available

**Boiling Point** 

No data available

**Flammability** Not applicable **Upper explosion limit** Not applicable Lower explosion limit Not applicable > 100 °C

Flash point

does not flash

**Auto-ignition temperature** > 600 °C

Minimum ignition energy Not applicable

**Self-accelarating** decomposition temperature No data available

(SADT)

pН 3.8 - 5.0 (1 %) (23 °C) (deionized water)

Viscosity, dynamic 12.4 mPa.s (20 °C)

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Viscosity, kinematic No data available
Water solubility completely soluble

Partition coefficient: n-

octanol/water

Potassium salt of glyphosate: log Pow: < -3.2 (25 °C)

**Vapour pressure** aqueous solution, No significant volatility.

**Density** 1.27 g/cm<sup>3</sup> (20 °C)

Relative density 1.2647 (20 °C)

Water at 4 °C

Relative vapour density No data available

Assessment nano particles This substance/ mixture does not contain nanoforms

Particle size No data available

9.2 Other information

ExplosivityNot explosiveOxidizing propertiesNo data availableEvaporation rateNo data available

Other physico-chemical

properties

Further safety related physical-chemical data are not known.

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

**10.1 Reactivity** Stable under normal conditions.

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

**10.3 Possibility of**hazardous reactions
Reacts with ga
a highly flamma

Reacts with galvanised steel or unlined mild steel to produce hydrogen,

a highly flammable gas that could explode.

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

10.5 Incompatible materials Galvanised steel, Carbon steel, Unlined mild steel

Store only in the original container.

10.6 Hazardous

No decomposition products expected under normal conditions of use.

**decomposition products** Hazardous products of combustion: see section 5.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

11.1 Information on hazard classes as defined in regulation (EC) No 1272/2008

Acute oral toxicity LD50 (Rat) > 2,000 mg/kg

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Test conducted with a similar formulation.

Acute inhalation toxicity

Based on available data, the classification criteria are not met. During intended and foreseen applications, no respirable aerosol is

formed.

Acute dermal toxicity LD50 (Rat) > 2,000 mg/kg

Test conducted with a similar formulation.

**Skin corrosion/irritation** No skin irritation (Rabbit)

Test conducted with a similar formulation.

Serious eye damage/eye

irritation

Slight irritant effect - does not require labelling. (Rabbit)

Test conducted with a similar formulation.

Respiratory or skin

sensitisation

Skin: Non-sensitizing. (Guinea pig)
OECD Test Guideline 406, Buehler test
Test conducted with a similar formulation.

### Assessment STOT Specific target organ toxicity - single exposure

Potassium salt of glyphosate: Based on available data, the classification criteria are not met.

### Assessment STOT Specific target organ toxicity - repeated exposure

Potassium salt of glyphosate did not cause specific target organ toxicity in experimental animal studies.

## **Assessment mutagenicity**

Potassium salt of glyphosate is not considered mutagenic.

#### Assessment carcinogenicity

Potassium salt of glyphosate: Based on available data, the classification criteria are not met.

### Assessment toxicity to reproduction

Potassium salt of glyphosate: Based on available data, the classification criteria are not met.

#### Assessment developmental toxicity

Potassium salt of glyphosate: Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

### 11.2 Information on other hazards

### **Endocrine disrupting properties**

Assessment The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

### 12.1 Toxicity

**Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) > 1,039 mg/l

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Exposure time: 96 d

Test conducted with a similar formulation.

Chronic toxicity to fish Brachydanio rerio (zebrafish)

NOEC: 1.0 mg/l Exposure time: 7 d

The value mentioned relates to the active ingredient glyphosate.

Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) 243 mg/l

Exposure time: 48 h

Test conducted with a similar formulation.

**Toxicity to aquatic plants** EC50 (Selenastrum capricornutum (green algae)) 118 mg/l

Exposure time: 72 h

Test conducted with a similar formulation.

NOEC (Myriophyllum spicatum (Eurasian watermilfoil)) 3.6 mg/l

Exposure time: 14 d

Test conducted with a similar formulation.

NOAEC (Lemna gibba (gibbous duckweed)) 7.48 mg/l

Exposure time: 7 d

Test conducted with a similar formulation.

Toxicity to other organisms LD50 (Apis mellifera (bees)) > 282mcg/bee (oral)

Exposure time: 48 h

The value mentioned relates to the active ingredient glyphosate.

LD50 (Apis mellifera (bees)) > 279 mcg/bee (contact)

Exposure time: 48 h

The value mentioned relates to the active ingredient glyphosate.

LC50 (Eisenia fetida (earthworms)) > 10000 mg/kg dry soil

Exposure time: 14 d

The value mentioned relates to the active ingredient glyphosate.

12.2 Persistence and degradability

**Biodegradability** Potassium salt of glyphosate:

Not readily biodegradable.

**Koc** Potassium salt of glyphosate: Koc: 884

12.3 Bioaccumulative potential

**Bioaccumulation** Potassium salt of glyphosate: Bioconcentration factor (BCF) < 1

12.4 Mobility in soil

Mobility in soil Potassium salt of glyphosate: Variable, depends on temperature, soil

type, soil moisture, soil pH and organic matter content.

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment Potassium salt of 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 Endocrine disrupting properties

Assessment The substance/mixture does not contain components considered to have

endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

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Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Additional ecological

information

No other effects to be mentioned.

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

#### 13.1 Waste treatment methods

**Product** In accordance with current regulations and, if necessary, after

consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

**Contaminated packaging** Triple rinse containers.

Do not re-use empty containers.

Not completely emptied packagings should be disposed of as

hazardous waste.

## **SECTION 14: TRANSPORT INFORMATION**

#### ADR/RID/ADN

14.1 UN number **3082** 

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(GLYPHOSATE POTASSIUM SALT SOLUTION)

14.3 Transport hazard class(es) 9 14.4 Packing group III

14.5 Environm. Hazardous Mark YES Hazard no. 90 Tunnel Code -

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

## IMDG

4 4 4 1 181	0000
14.1 UN number	3082

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(GLYPHOSATE POTASSIUM SALT SOLUTION)

14.3 Transport hazard class(es) 9
14.4 Packing group III
14.5 Marine pollutant YES

#### IATA

14.1 UN number	3082
----------------	------

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

9

(GLYPHOSATE POTASSIUM SALT SOLUTION)

14.3 Transport hazard class(es)

14.4 Packing group III

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14.5 Environm. Hazardous Mark YES

UK 'Carriage' Regulations

14.1 UN number **3082** 

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(GLYPHOSATE POTASSIUM SALT SOLUTION)

14.3 Transport hazard class(es) 9
14.4 Packing group III
14.5 Environm. Hazardous Mark YES
Emergency action code 3Z

### 14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

### 14.7 Transport in bulk according to IMO instruments

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)

Control of Substances Flazardous to Fleatin Negulations 2002 (G12002 No 2017)

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: III (Slightly hazardous)

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

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

H302 Harmful if swallowed. H315 Causes skin irritation.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

#### Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by

**Inland Waterways** 

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE Acute toxicity estimate

CAS-Nr. Chemical Abstracts Service number

Conc. Concentration

EC-No. European community number ECx Effective concentration to x %

EH40 WEL Worker Exposure Limit

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances

EN European Standard EU European Union

IATA International Air Transport Association

IBC International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk (IBC Code) Inhibition concentration to x %

IMDG International Maritime Dangerous Goods

LCx Lethal concentration to x %

LDx Lethal dose to x %

ICx

LOEC/LOEL Lowest observed effect concentration/level

MARPOL: International Convention for the prevention of marine pollution from ships

N.O.S. Not otherwise specified

NOEC/NOEL No observed effect concentration/level

OECD Organization for Economic Co-operation and Development

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SI Statutory Instrument TWA Time weighted average

UN United Nations

WHO World health organisation

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2020/878 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge



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available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

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