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

1.1 Product identifier

Trade name AZURAL
Product code (UVP) 86789574

**UFI** KPF1-E0Y7-K009-RH2Q (for Northern Ireland only)

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

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.

Eye irritation: Category 2

H319 Causes serious eye irritation. Long-term (chronic) aquatic hazard: Category 2

H411 Toxic to aquatic life with long lasting effects.

### Classification according to specific UK regulations:

Eye irritation: Category 2

H319 Causes serious eye irritation.

#### 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.





## Signal word: Warning Hazard statements

H319 Causes serious eye irritation.

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**

P264 Wash hands thoroughly after handling.

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

P234 Keep only in original container.

P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

+ P338 present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

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)

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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

#### **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	35.5
Fatty alkyl ether alkyl amine ethoxylate	68478-96-6	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411	> 1 - < 10

#### **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.

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**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** Skin, eye and mucous membrane irritation

4.3 Indication of any immediate medical attention and special treatment needed

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

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the

patient's condition is recommended. Treatment with atropine and

oximes is not indicated. 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.

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#### 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

**Advice on safe handling** Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Hygiene measures Avoid contact with skin, eyes and clothing. Keep working clothes

separately. Wash hands before breaks and immediately after handling the product. Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again. 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 frost. 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.

Suitable materials HDPE (high density polyethylene)

HDPE - steel case

**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.

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#### 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.

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
Protective index Class 6

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, clear to slightly turbid

Colouryellow to amberOdourslight amine odourOdour ThresholdNo data availableMelting point/ rangeNot applicableBoiling PointNo data availableFlammabilityNo data available

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Upper explosion limitNo data availableLower explosion limitNo data availableFlash pointdoes not flashAuto-ignition temperatureNo data available

Self-accelarating

decomposition temperature

(SADT)

No data available

**pH** 4.5 - 5.5 (1 %) (23 °C) (deionized water)

Viscosity, dynamic 8.0 mPa.s (20 °C) Viscosity, kinematic No data available

Water solubility miscible

Partition coefficient: n-

octanol/water

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

Vapour pressureNo data availableDensity1.25 g/cm³ (20 °C)Relative densityNo data availableRelative vapour densityNo 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.

**Self heating** not self-heating

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

10.3 Possibility of Reacts with galvanised steel or unlined mild steel to produce hydrogen,

**hazardous reactions** a highly flammable gas that could explode.

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

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

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

Acute oral toxicity LD50 (Rat) > 5,000 mg/kg

Test conducted with a similar formulation.

Acute inhalation toxicity LC50 (Rat) > 5.05 mg/l

Exposure time: 4 h

Test conducted with a similar formulation.

Acute dermal toxicity LD50 (Rat) > 5,000 mg/kg

Test conducted with a similar formulation.

**Skin corrosion/irritation** Slight irritant effect - does not require labelling. (Rabbit)

Test conducted with a similar formulation.

Serious eye damage/eye

irritation

Severe eye irritation. (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

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#### **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 (Cyprinus carpio (Carp)) 12 mg/l

Exposure time: 96 h

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)) 56 mg/l

Exposure time: 48 h

Test conducted with a similar formulation.

Toxicity to aquatic plants EC50 (Selenastrum capricornutum (green algae)) 14 mg/l

Exposure time: 72 h

Test conducted with a similar formulation.

NOEC (Selenastrum capricornutum (green algae)) 2.0 mg/l

Exposure time: 72 h

Test conducted with a similar formulation.

NOAEC (Lemna gibba (gibbous duckweed)) < 0.42 mg/l

Exposure time: 7 d

Test conducted with a similar formulation.

**Toxicity to other organisms** LD50 (Apis mellifera (bees)) > 265 mcg/bee (contact)

Exposure time: 48 h

Test conducted with a similar formulation.

LD50 (Apis mellifera (bees)) > 285 mcg/bee (oral)

Exposure time: 48 h

Test conducted with a similar formulation.

LC50 (Eisenia fetida (earthworms)) > 2,700 mg/kg

Exposure time: 14 d

Test conducted with a similar formulation.

#### 12.2 Persistence and degradability

**Biodegradability** Potassium salt of glyphosate:

Not readily biodegradable.

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

#### 12.3 Bioaccumulative potential

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**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

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**

14.1 UN number

3082

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14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(GLYPHOSATE POTASSIUM SALT SOLUTION)

14.3 Transport hazard class(es)914.4 Packing groupIII14.5 Marine pollutantYES

**IATA** 

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

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)
14.4 Packing group
14.5 Environm. Hazardous Mark
Emergency action code
9
III
25
37
37

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)

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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

#### **Further information**

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

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

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

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H411 Toxic 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

Chemical Abstracts Service number CAS-Nr.

Concentration Conc.

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

EH40 WEL Worker Exposure Limit

**EINECS** European inventory of existing commercial substances

**ELINCS** European list of notified chemical substances

**European Standard** ΕN European Union EU

International Air Transport Association IATA

**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

Lethal concentration to x % LCx

Lethal dose to x % LDx

**IC**x

LOEC/LOEL Lowest observed effect concentration/level

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

Not otherwise specified N.O.S.

No observed effect concentration/level NOEC/NOEL

OECD Organization for Economic Co-operation and Development



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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 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.