

**GLYPHOSATE CONCENTRATE**Version 2 / GB  
1020000134911/7  
Revision Date: 23.11.2006  
Print Date: 23.11.2006**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name GLYPHOSATE CONCENTRATE  
Product code (UVP) 05873567  
Usage herbicide  
Company Bayer CropScience Limited  
230 Cambridge Science Park  
Milton Road  
Cambridge  
Cambridgeshire CB4 0WB  
Great Britain

Telephone +44(0)1223 226500  
Telefax +44(0)1223 426240  
Emergency telephone number 0800-220876 (UK 24 hr)  
+44(0)1603-242424 (Overseas 24 hr)

**2. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical nature**

Soluble concentrate (SL)  
Glyphosate 96 g/l

**Hazardous components**

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Glyphosate, isopropylamine salt	38641-94-0 254-056-8	N	R51/53	12.54
Ethoxylated tallow alkyl amines	61791-26-2	Xn, N	R22, R41, R51/53	> 1.00 - < 5.00

**3. HAZARDS IDENTIFICATION****Risk advice to man and the environment**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**4. FIRST AID MEASURES****Inhalation**

Move the patient to fresh air and keep at rest.

**Skin contact**

Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.

**Eye contact**

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.

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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.

**Notes to Physician****Symptoms**

Local:, Slight irritation.

**Symptoms**

Systemic:, diarrhoea, vomiting, nausea

**Treatment**

Local treatment:

Initial treatment should be symptomatic and supportive.

**Treatment**

Systemic treatment:

Initial treatment should be symptomatic and supportive.

In the event of a mouthful or more being ingested, the following measures should be considered:

If a small amount is ingested (or if treatment is delayed) oral administration of large amounts of activated charcoal and a cathartic is probably sufficient therapy.

Liver protective therapy with N-Acetylcystein; hemodialysis if necessary.

Monitor fluid balance.

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**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

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

**Extinguishing media which must not be used for safety reasons**

high volume water jet

**Specific hazards during fire fighting**

In case of fire the evolution of dangerous gases is possible.

**Special protective equipment for fire-fighters**

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

Wear self contained breathing apparatus for fire fighting if necessary.

**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.

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**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Avoid contact with spilled product or contaminated surfaces.

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

**Environmental Precautions**

Do not discharge into the drains/surface water/groundwater.

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).

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Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material).

Keep in suitable, closed containers for disposal.

Clean floors and contaminated objects with plenty of water.

**Additional Advice**

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

Check also for any local site procedures.

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**7. HANDLING AND STORAGE****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.

**Storage**

Requirements for storage areas and containers

Keep containers tightly closed in a cool, well-ventilated place.

Store in original container and out of the reach of children, preferably in a locked storage area.

Keep away from direct sunlight.

Protect against frost.

Keep away from heat.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Storage stability

Other data

Storage temperature should ideally lie between 0 and 30 °C, however, storage for two weeks at 54 °C has shown no adverse effects regarding product safety or stability.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**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

No personal respiratory protective equipment normally required. 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

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	instructions regarding wearing and maintenance.
Hand Protection	Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands 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 coverall and type 6 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.
Hygiene measures	When using, do not eat, drink or smoke. Clean hands and face at work intervals and after work.

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**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	liquid, clear
Colour	yellow

**Safety data**

pH	4.5 - 5.0 at 100 % (20 °C)
Density	ca. 1.049 g/cm <sup>3</sup> at 20 °C
Water solubility	soluble

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**10. STABILITY AND REACTIVITY**

Conditions to Avoid	Extremes of temperature and direct sunlight.
Materials to avoid	None.
Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.

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**11. TOXICOLOGICAL INFORMATION**

Acute Oral Toxicity	LD50 (rat) > 2,000 mg/kg
Acute Inhalation Toxicity	LC50 (rat) > 20.0 mg/l Exposure time: 4 h
Acute Dermal Toxicity	LD50 (rat) > 2,000 mg/kg

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Skin Irritation	No skin irritation. (rabbit)
Eye Irritation	No eye irritation. (rabbit)
Sensitization	Non-sensitizing. (guinea pig)
Further information	Information given is based on data obtained from similar substances.

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**12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

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 daphnia	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 algae	EC50 (Scenedesmus subspicatus) 72.9 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient glyphosate-isopropylamine salt.

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**13. DISPOSAL CONSIDERATIONS****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.

**Waste key for the unused product**

020108 agrochemical waste containing dangerous substances

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**14. TRANSPORT INFORMATION**

According to national and international transport regulations not classified as dangerous good.

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**15. REGULATORY INFORMATION**

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3 and any subsequent amendments.

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## Classification:

Labelling according to EC Directives

## Hazardous components which must be listed on the label:

- Glyphosate

## R-phrases(s)

R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## S-phrases(s)

S 2

Keep out of the reach of children.

S46

If swallowed, seek medical advice immediately and show this container or label.

**|| CLASSIFICATION ACCORDING TO SPECIFIC UK REGULATIONS:**

**The labelling information below is that which has been approved under 'The Control of Pesticides Regulations 1986' and/or 'Part III of the Food and Environment Protection Act 1985' and/or 'Plant Protection Product Regulations 1999' and any subsequent amendments and may differ from that indicated by any toxicological and/or other testing otherwise indicated in this 'Safety Data Sheet'.**

## Symbol(s)

|||N

Dangerous for the environment

## R-phrases(s)

|||R51/53

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## S-phrases(s)

|||S29

Do not empty into drains.

## Exceptional labelling

To avoid risks to man and the environment, comply with the instructions for use.

## Further information

WHO-classification: III (Slightly hazardous)

**16. OTHER INFORMATION****Further information**

## Text of R phrases mentioned in Section 2:

R22

Harmful if swallowed.

R41

Risk of serious damage to eyes.

R51/53

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

Bayer Garden

SAFETY DATA SHEET according to EC Directive 2001/58/EC



## GLYPHOSATE CONCENTRATE

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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.

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