

GLYFOS DAKAR

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Compilation date: 01/04/2014

Revision date: 19/03/2015

Revision No: 2

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: GLYFOS DAKAR

Product code: 4581

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

Use of substance / mixture: Can be used as herbicide only.

1.3. Details of the supplier of the safety data sheet

Company name: Headland Agrochemicals

Rectors Lane

Pentre Flintshire CH5 2DH

United Kingdom **Tel:** +44(0)1244 537370

Fax: +44(0)1244 532097

Email: enquiry@headlandgroup.com

1.4. Emergency telephone number

Emergency tel: +44(0)1244 537370

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: -: R52/53

Classification under CLP: * -: EUH210; -: EUH401

Most important adverse effects: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

2.2. Label elements

Label elements under CLP:

Hazard statements: * EUH210: Safety data sheet available on request.

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

instructions for use.

Label elements under CHIP:

Risk phrases: R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

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Safety phrases: * S2: Keep out of the reach of children.

S23: Do not breathe spray.S29: Do not empty into drains.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Precautionary phrases: * To avoid risks to man and the environment, comply with the instructions for use.

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and

roads.

2.3. Other hazards

PBT: This product is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

GLYPHOSATE-AMMONIUM

EINECS	CAS	CHIP Classification	CLP Classification	Percent
-	40465-66-5	N: R51/53	Aquatic Chronic 2: H411	70-90%

TALLOW ALKYL AMINES, HYDROGENATED, ETHOXYLATED

-	61790-82-7	N: R51/53	Aquatic Chronic 2: H411	1-5%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash

immediately with plenty of soap and water. Consult a doctor if irritation develops.

Eye contact: Bathe the eye with running water for 15 minutes. Remove contact lenses, if present, after

the first few minutes, then continue rinsing. Transfer to hospital for specialist

examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. Drink several glasses of water or

milk. If vomiting occurs, rinse mouth and drink fluids again. Transfer to hospital as soon

as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Light cases:

Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.

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

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: * Ingestion of similar formulations has been reported to produce gastrointestinal

discomfort with nausea, vomiting and diarrhoea. Ingestion of large quantities of a

similar product has been reported to result in hypotension and lung oedema.

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Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: No data available.

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

Immediate / special treatment: Immediate medical attention is required in case of eye contact. The irritating effects of

this product can be treated as usual against effects of acids or acid fumes. Possible

mucosal damage may contraindicate the use of gastric lavage.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Dry chemical or carbon dioxide for small fires, water spray or foam for large fires. Avoid

heavy hose streams. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes. The essential breakdown products are carbon

monoxide, carbon dioxide, phosphorus pentoxide and nitrogen oxides.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact

with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Mark out the contaminated area

with signs and prevent access to unauthorised personnel. Avoid and reduce dust

formation as much as possible, if appropriate by moistening. If outside do not approach from downwind. Eliminate all sources of ignition. In the case of large spills, (1 ton or

more) alert the appropriate authorities.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Accidental release into water courses must be

alerted to the appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Surface water drains within close vicinity of the spill should be covered. Small spills

should be immediately swept up or vacuumed using equipment with high efficiency final

filter. Transfer to a closable, labelled salvage container for disposal by an appropriate

method. Rinse the area with water and industrial detergent. Absorb wash liquid onto

absorbent and transfer to suitable containers. Spills in water should be contained as

much as possible by isolation of the contaminated water. The contaminated water must

be collected and removed for treatment or disposal. Refer to section 13 of SDS for

suitable method of disposal.

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6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Material should be handled by mechanical means as much as possible. Ensure there is sufficient ventilation of the area. Exhaust gases should be filtered or treated otherwise. Remove contaminated clothing immediately after handling, then wash thoroughly and put on clean clothes. Clean protective clothing and protective equipment with soap and water after use. Collect all wash water and dispose of as hazardous waste.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor. The room should only be used for storage of chemicals, and without access to unauthorised persons or children. Food, drink, feed and seed should not be present. A warning sign reading 'POISON' is recommended. A hand wash station should be available.

Suitable packaging: The product, or its spray solutions, should be mixed, stored or applied using only stainless steel, aluminium, fiberglass, plastic or plastic-lined containers. See subsection 10.5.

7.3. Specific end use(s)

Specific end use(s): This product is a registered pesticide, which may only be used for the applications it is registered for, in accordance with a label approved by the regulatory authorities.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: When used in a closed system, personal protection equipment will not be required. The following is meant for other situations, when the use of a closed system is not possible, or when it is necessary to open the system. Consider the need to render equipment or piping system non-hazardous before opening.

Respiratory protection: The product is not likely to present an airborne exposure concern during normal handling, but in the event of a discharge of the material which produces a heavy dust, workers should put on officially approved face mask or respiratory protection. Respiratory protection with universal filter type, including particle filter.

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Hand protection: Wear heavy duty natural rubber gloves. The breakthrough time of these gloves for the

product is unknown, but it is expected that they will give adequate protection. Replace

gloves frequently and limit work done manually.

Eye protection: Face-shield. Ensure eye bath is to hand.

Skin protection: Waterproof pants and apron of chemical resistant material or coveralls with polyethylene

(PE) coating will be sufficient for short time exposure. Coveralls must be discarded after use if contaminated. In cases of prolonged exposure, barrier laminate coveralls may be

required.

Environmental: Refer to specific Member State legislation for requirements under Community

environmental legislation.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Granules
Colour: White

Odour: Barely perceptible odour

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Soluble

Melting point/range°C: * Decomposes at 190°C Part.coeff. n-octanol/water: See section 12.3

Relative density: 0.73 g/cm³ pH: Approx. 4 (1% soln)

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Do not mix, store or apply this product or spray solutions of this product in galvanised or

unlined steel containers or spray tanks. Stainless steel may be used. This product or its spray solutions can react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture with air. This gas mixture could flash

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or explode if ignited, causing serious personal injury. Can react with basic materials in an acid-base reaction, which will release heat.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes. See subsection 5.2.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg

Hazardous ingredients:

GLYPHOSATE-AMMONIUM

DERMAL	RAT	LD50	>4000	mg/kg
ORAL	RAT	LD50	>2000	mg/kg

TALLOW ALKYL AMINES, HYDROGENATED, ETHOXYLATED

ORAL RAT LD50 mg/kg

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: * Ingestion of similar formulations has been reported to produce gastrointestinal

discomfort with nausea, vomiting and diarrhoea. Ingestion of large quantities of a

similar product has been reported to result in hypotension and lung oedema.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: No data available.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

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Species	Test	Value	Units
HONEYBEES (Apis mellifera)	48H LD50	>100 (oral)	μg/bee
EARTHWORMS (Eisenia fetida)	14d LD50	>1000	mg/kg.dry soil
DUCKWEED (Lemna gibba)	72H EC50	28	mg/l

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ALGAE (Desmodesmus subspicatus)	72H EC50	91.6	mg/l
DAPHNIDS (Daphnia magna)	48H EC50	>100	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	>100	mg/l

12.2. Persistence and degradability

Persistence and degradability: Glyphosate is not readily biodegradable. It undergoes slow degradation in the environment and in waste water treatment plants. No adverse effects are found at concentrations up to 100mg/l in waste water treatment plants. Degradation is mainly microbiological and aerobic, but anaerobic degradation does also occur. Degradation half-lives in the environment vary much with the circumstances, but are usually around 3 - 30 days in aerobic soil and water.

12.3. Bioaccumulative potential

Bioaccumulative potential: Glyphosate: log Kow = -3.3. Glyphosate is not expected to bioaccumulate. In several studies on bioaccumulation of glyphosate, both in marine and freshwater systems, only low bioaccumulation factors were found.

12.4. Mobility in soil

Mobility: In the envoronment glyphosate is not mobile, but is rapidly deactivated by adsorption to clay particles. Glyphosate binds strongly to soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Waste that cannot be reused or chemically reprocessed can be disposed of by removal

to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

Do not discharge to sewer systems.

Disposal of packaging: Triple rinse (or equivalent) and offer for recycling or reconditioning. Do not discharge

cleaning water to sewer systems. Alternatively, packaging can be delivered to a licensed service for disposal of hazardous waste. Controlled incineration with flue gas scrubbing

is possible for combustible packaging materials.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

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14.1. UN number

UN number: N/A

14.2. UN proper shipping name

Shipping name: NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

14.3. Transport hazard class(es)

Transport class: N/A

14.4. Packing group

Packing group: N/A

14.5. Environmental hazards

Environmentally hazardous: No Marine pollutant: No

14.6. Special precautions for user

Special precautions: Do not discharge to the environment.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk: The product is not transported in bulk tankers.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: All ingredients in this product are covered by EU chemical legislation. Product

Registration Number: MAPP 13054.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture

by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No

453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: EUH210: Safety data sheet available on request.

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

instructions for use.

H411: Toxic to aquatic life with long lasting effects.

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

environment.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

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Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.