

# **GLYFOS PROACTIVE**

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Revision No: 2

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

1.1. Product identifier

Product name: GLYFOS PROACTIVE

Product code: 4510

# 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:	N: R50/53
Classification under CLP:	* Aquatic Acute 1: H400; Aquatic Chronic 2: H411; -: EUH401
Most important adverse effects:	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
	environment.

#### 2.2. Label elements

Label elements under CLP:	
Hazard statements:	* H400: Very toxic to aquatic life.
	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.
Signal words:	* Warning
Hazard pictograms:	* GHS09: Environmental

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Precautionary statements:	* P273: Avoid release to the environment.
	P391: Collect spillage.
	P501: Dispose of contents/container to hazardous or special waste collection point.
Label elements under CHIP:	
Hazard symbols:	Dangerous for the environment.
Risk phrases:	R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the
	aquatic environment.
Safety phrases:	S2: Keep out of the reach of children.
	S23: Do not breathe spray.
	S29: Do not empty into drains.
	S60: This material and its container must be disposed of as hazardous waste.
	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.
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 ISOPROPYLAMINE SALT

EINECS	CAS	CHIP Classification	CLP Classification	Percent
254-056-8	38641-94-0	N: R51/53	Aquatic Chronic 2: H411	30-50%

# TALLOW ALKYLAMINE ETHOXYLATE

-	61791-26-2	Xn: R22; Xi: R36/38; N: R50	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Aquatic Acute 1:	5-10%
			H400	

# Section 4: First aid measures

# 4.1. Description of first aid measures

examination.

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

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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. Consult a doctor.
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 symptom	s and effects, both acute and delayed
Skin contact:	There may be mild irritation at the site of contact.
Eye contact:	The product is moderately to severely irritating to eyes.
Ingestion:	No significant adverse effects are expected to develop if only small amounts (less than a
	mouthful) are swallowed. 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:	No sensitisation effects have been observed.
Delayed / immediate effects:	No data available.
4.3. Indication of any immedi	ate medical attention and special treatment needed
Immediate / special treatment:	* Immediate medical attention is required in case of ingestion or 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 meas	sures
	sures
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5.1. Extinguishing media	* Carbon dioxide. Dry chemical powder. Water spray. Foam. Avoid heavy hose streams.
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5.1. Extinguishing media         Extinguishing media:         5.2. Special hazards arising f         Exposure hazards:         5.3. Advice for fire-fighters	* Carbon dioxide. Dry chemical powder. Water spray. Foam. Avoid heavy hose streams. Use water spray to cool containers. rom the substance or mixture In combustion emits toxic fumes. The essential breakdown products are carbon monoxide, carbon dioxide, phosphorus pentoxide and nitrogen oxides.
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5.1. Extinguishing media         Extinguishing media:         5.2. Special hazards arising f         Exposure hazards:         5.3. Advice for fire-fighters         Advice for fire-fighters:         Section 6: Accidental release	* Carbon dioxide. Dry chemical powder. Water spray. Foam. Avoid heavy hose streams. Use water spray to cool containers. rom the substance or mixture In combustion emits toxic fumes. The essential breakdown products are carbon monoxide, carbon dioxide, phosphorus pentoxide and nitrogen oxides. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Fight fire from protected location or maximum possible distance. Dike area to prevent water run off. Wear protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.
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area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. In the case of large spills, (1 ton or more) alert the appropriate authorities.

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6.2. Environmental precaution	ns
Environmental precautions:	* Do not discharge into drains or rivers. Contain the spillage using bunding. 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. Spills on the
	floor or other impervious surface should be absorbed onto an absorptive material such
	as hydrated lime, universal binder, or other absorbent clays. Collect the contaminated
	absorbent in suitable containers. Rinse the area with water and industrial detergent.
	Absorb wash liquid onto absorbent and transfer to suitable containers. Spills which
	soak into the ground should be dug up and placed in 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.
6.4. Reference to other section	ons
Reference to other sections:	Refer to section 8 of SDS. Refer to section 13 of SDS.
ection 7: Handling and stor	age
7.1. Precautions for safe hand	anng
Handling requirements:	Ensure there is sufficient ventilation of the area. Exhaust gases should be filtered or
	Ŭ
	treated otherwise. Avoid direct contact with the substance. Material should be handled by
in the second se	-
ing requirements.	treated otherwise. Avoid direct contact with the substance. Material should be handled by
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# 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 vapour
	or mist, workers should put on officially approved face mask or respiratory protection:
	Respiratory protection with universal filter type, including particle filter.
Hand protection:	$^{\star}$ 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 cher	nical properties

# 9.1. Information on basic physical and chemical properties State: Liquid Colour: Pale yellow Odour: Barely perceptible odour Oxidising: Non-oxidising (by EC criteria) Solubility in water: Miscible Viscosity: 43 mm²/s at 20°C; 18 mm²/s at 40°C Boiling point/range°C: 113 Flash point°C: >113 Plash point°C: >113 Relative density: 1.165 g/ml at 20°C pH: 4.5 (1% aq. soln)

9.2. Other information

Other information: No data available.

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# 10.1. Reactivity Reactivity: Stable under recommended transport or storage conditions. stable at ambient temperatures. 10.2. Chemical stability Chemical stability: Stable under normal conditions. 10.3. Possibility of hazardous reactions Hazardous reactions: The product can react with caustic (basic) materials in an acid-base chemical neutralisation reaction which may be hazardous because of heat release. 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 or explode if ignited, causing serious personal injury.

#### 10.6. Hazardous decomposition products

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

#### Section 11: Toxicological information

Section 10: Stability and reactivity

# 11.1. Information on toxicological effects

#### **Toxicity values:**

Route	Species	Test	Value	Units
ORAL	RAT	LD50	>5000	mg/kg
DERMAL	RAT	LD50	>2000	mg/kg
DUST/MIST	RAT	4H LC50	>4.86	mg/l

#### Hazardous ingredients:

#### GLYPHOSATE ISOPROPYLAMINE SALT

DERMAL	RAT	LD50	>4000	mg/kg
DUST/MIST	RAT	4H LC50	>4.72	mg/l
ORAL	RAT	LD50	>2000	mg/kg

# GLYFOS PROACTIVE

# TALLOW ALKYLAMINE ETHOXYLATE

ORAL	RAT	LD50	1569	mg/kg	
Symptoms / routes of exposu	Ire				
Skin contact:	Skin contact: There may be mild irritation at the site of contact.				
Eye contact:	The product is moderately	The product is moderately to severely irritating to eyes.			
Ingestion:	No significant adverse eff	ects are expected to c	levelop if only small a	amounts (less than a	
	mouthful) are swallowed. 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:	No sensitisation effects have been observed.				
Delayed / immediate effects:	No data available.				
ection 12: Ecological information					

# 12.1. Toxicity

# **Ecotoxicity values:**

Species	Test	Value	Units
HONEYBEES (Apis mellifera)	48H LD50	>359 (oral)	µg/bee
JAPANESE QUAIL (Coturnix japonica)	LD50	1900	mg/kg
EARTHWORMS (Eisenia foetida)	14 day LC50	>1000	mg/kg soil
DUCKWEED (Lemna sp.)	7 day EC50	27	mg/l
MARINE ALGAE (Skeletonema costatum)	96H EC50	0.340	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H IC50	2.0	mg/l
DAPHNIDS (Daphnia magna)	48H EC50	21.6	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	21 day NOEC	0.43 - 0.81	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	18.6	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.

# **GLYFOS PROACTIVE**

# 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: Toxic to aquatic organisms.

# 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. Treat the cleaning	
	water following the above method for waste product. Controlled incineration with flue	
	gas scrubbing is possible for combustible packaging materials. Alternatively, packaging	
	can be delivered to a licensed service for disposal of hazardous waste.	
NB:	The user's attention is drawn to the possible existence of regional or national	
	regulations regarding disposal.	

# Section 14: Transport information

### 14.1. UN number

UN number: UN3082

# 14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(GLYPHOSATE ISOPROPYLAMINE SALT)

#### 14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

#### 14.6. Special precautions for user

Special precautions: Do not discharge to the environment.

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# 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: Seveso category in Annex I to Dir. 2012/18/EU: dangerous for the environment. All ingredients in this product are covered by EU chemical legislation. Product Registration Number: MAPP 11976.

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:	EUH401: To avoid risks to human health and the environment, comply with the
	instructions for use.
	H302: Harmful if swallowed.
	H315: Causes skin irritation.
	H319: Causes serious eye irritation.
	H400: Very toxic to aquatic life.
	H411: Toxic to aquatic life with long lasting effects.
	R22: Harmful if swallowed.
	R36/38: Irritating to eyes and skin.
	R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the
	aquatic environment.
	R50: Very toxic to aquatic organisms.
	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
	environment.
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.