

GLYPHOSATE

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

1.1. Product identifier

Product name: GLYPHOSATE

CAS number: 1071-83-6

EINECS number: 213-997-4

Index number: 607-315-00-8

Product code: BIG0158

Synonyms: (N-PHOSPHONOMETHYL)GLYCINE

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

1.3. Details of the supplier of the safety data sheet

Company name: Apollo Scientific Ltd Units 3 & 4 Parkway Denton Manchester M34 3SG UK Tel: 0161 337 9971 Fax: 0161 336 6932 Email: david.tideswell@apolloscientific.co.uk

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture		
Classification under CHIP:	Xi: R41; N: R51/53	
Classification under CLP:	Aquatic Chronic 2: H411; Eye Dam. 1: H318	
Most important adverse effects:	Risk of serious damage to eyes. Toxic to aquatic organisms, may cause long-term	
	adverse effects in the aquatic environment.	
2.2. Label elements		
Label elements under CLP:		
Hazard statements:	H318: Causes serious eye damage.	
	H411: Toxic to aquatic life with long lasting effects.	
Signal words:	Danger	
Hazard pictograms:	GHS05: Corrosion	
	GHS09: Environmental	[cont]

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Precautionary statements: P273: Avoid release to the environment.

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

Label elements under CHIP:

Hazard symbols: Dangerous for the environment.

Irritant.



 Risk phrases:
 R41: Risk of serious damage to eyes.

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

 Safety phrases:
 S22: Do not breathe dust.

 S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

 S28: After contact with skin, wash immediately with plenty of water.

 S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

 S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: GLYPHOSATE

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.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

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

Eye contact: There may be irritation and redness. The eyes may water profusely.

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Ingestion:	There may be soreness and redness of the mouth and throat.		
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may		
	cause coughing or wheezing.		
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.		
4.3. Indication of any immediat	e medical attention and special treatment needed		
Immediate / special treatment:	Eye bathing equipment should be available on the premises.		
Section 5: Fire-fighting measu	res		
5.1. Extinguishing media			
Extinguishing media:	Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the		
	surrounding fire should be used.		
5.2. Special hazards arising from the substance or mixture			
Exposure hazards:	In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides		
	(NOx). Oxides of phosphorus		
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 I	neasures		
6.1. Personal precautions, pro	tective equipment and emergency procedures		
· · · · ·	Refer to section 8 of SDS for personal protection details. If outside do not approach from		
reisonal precautions.	downwind. If outside keep bystanders upwind and away from danger point. Mark out the		
	contaminated area with signs and prevent access to unauthorised personnel. Do not		
	create dust.		
6.2. Environmental precaution			
Environmental precautions: Do not discharge into drains or rivers.			
6.3. Methods and material for o	containment and cleaning up		
Clean-up procedures:	Transfer to a closable, labelled salvage container for disposal by an appropriate		
	method.		
6.4. Reference to other sections			
Reference to other sections:	Refer to section 8 of SDS.		

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

Do not handle in a confined space. Avoid the formation or spread of dust in the air. Only use in fume hood.

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Storage conditions:	Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage		
	room must be impermeable to prevent the escape of liquids.		
Suitable packaging:	Must only be kept in original packaging.		
7.3. Specific end use(s)			
Specific end use(s):	No data available.		
Section 8: Exposure controls/personal protection			
8.1. Control parameters			
Workplace exposure limits:	Not applicable.		
8.2. Exposure controls			

Engineering measures:	Ensure there is sufficient ventilation of the area. The floor of the storage room must be
	impermeable to prevent the escape of liquids.
Respiratory protection:	Self-contained breathing apparatus must be available in case of emergency. Respiratory
	protective device with particle filter.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. Ensure eye bath is to hand.
Skin protection:	Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Powder

7.2. Conditions for safe storage, including any incompatibilities

Solubility in water: Soluble

Melting point/range °C: 250 (dec)

pH: 2.5

9.2. Other information

Section 8: Exposure

Other information: Not applicable.

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.

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10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides

(NOx). Oxides of phosphorus.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Based on test data

Symptoms / routes of exposure

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

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: Not applicable.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms. Toxic to soil organisms.

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Section 13: Disposal considera	tions		
13.1. Waste treatment methods			
Disposal operations:	MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND		
	FEDERAL REGULATIONS		
Disposal of packaging:	Dispose of as special waste in compliance with local and national regulations Observe		
	all federal, state and local environmental regulations.		
NB:	The user's attention is drawn to the possible existence of regional or national		
	regulations regarding disposal.		
Section 14: Transport informat	ion		
14.1. UN number			
UN number:	UN3077		
14.2. UN proper shipping name			
Shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.		
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: No		
14.6. Special precautions for us	ser		
Special precautions:	No special precautions.		
Tunnel code:	E		
Transport category:	3		
Section 15: Regulatory information	tion		
15.1. Safety, health and environ	mental regulations/legislation specific for the substance or mixture		
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			
	This sofety data shoet is prepared in accordance with Commission Derivation (FUNN)		
Other Information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No		
	453/2010.		

* Data predicted using computational software. Toxtree - Toxic Hazard Estimation by

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decision tree approach. http://ecb.jrc.ec.europa.eu/qsar/qsar-tools/index.php? c=TOXTREE ~ Data predicted using computatioanl software ACD/ToxSuite v 2.95.1 Copyright 1994-2009 ACD/labs, Copyright 2001-2009 Pharma Algorithms, Inc, Advanced Chemistry Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc admet/tox/tox/ Phrases used in s.2 and 3: H318: Causes serious eye damage. H411: Toxic to aquatic life with long lasting effects. R41: Risk of serious damage to eyes. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Legal disclaimer: The material is intended for research purposes only and should be handled exclusively by those who have been fully trained in safety, laboratory and chemical handling procedures. The above information is believed to be correct to the best of our knowledge. The above information is believed to be correct to the best of our knowledge at the date of its publication, but should not be considered to be all inclusive. It should be used only as a guide for safe handling, storage, transportation and disposal. We cannot guarantee that the hazards detailed in this document are the only hazards that exist for this product. This is not a warranty and Apollo Scientific Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.

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