

1. Identification of the substance/preparation and the company/undertaking

Identification of the preparation: Glyphosate acid 360 g/l as the isopropylamine salt plus coformulants to 100%, as a soluble liquid.

Trade name: RouteOne Rosate 36

Use of the preparation: For use only as an agricultural/horticultural/industrial/forestry/amenity herbicide.

Company identification: Albaugh UK Ltd.,
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Fax: 01653 658050
Email: msds@albaughurope.eu
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Emergency telephone: For advice on medical emergencies, fires, spillages or chemical hazards ONLY: +44 (0) 208 762 8322

UK National Poisons Information Service: + 44 (0)121 507 4123

2. Hazards identification

Hazard classification: Classified as "Xi": Irritant and "N": Dangerous for the environment.

R38: Irritating to skin.

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

3. Composition / information on ingredients

Chemical Name	CAS-No.	EC-No.	Annex I Index no.	Classification	Concentration
Isopropylamine salt of glyphosate	38641-94-0	-	-	N; R51/53	41.5 %
Polyoxyethelene amine ethoxylate	61791-26-2	-	-	Xn; R22, R41, N; R51/53	18.0%
Other ingredients	-	-	-	-	to 100%

For full text of R phrases, refer to Section 16.

Version 1 UK

Issue date: 16-07-2008

4. First aid measures

<i>General advice:</i>	If symptoms occur after exposure to this product, seek medical advice and show the product label or this SDS. Remove to fresh air and keep at rest. Do not allow smoking or eating. Take off all contaminated clothing and footwear. Comply with all the necessary protection and safety measures to avoid contamination in giving first aid.
<i>Eye contact:</i>	Immediately rinse with water. Holding eyes open, continue rinsing for 15 minutes at least. Remove contact lenses as soon as possible. Seek medical attention.
<i>Skin contact:</i>	Remove all contaminated clothing immediately. Wash skin with soap and rinse with plenty of water. Seek medical attention if irritation persists. Wash clothes before re-use.
<i>Inhalation:</i>	Remove to fresh air and keep at rest. Administer artificial respiration if breathing has stopped and seek medical attention immediately.
<i>Ingestion:</i>	If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label. Offer the casualty water to drink. Remove any residues from mouth and rinse it with plenty of water. Never give anything by mouth to an unconscious person.
<i>Information for doctors:</i>	Treat symptomatically. No specific antidote. In case of ingestion, do NOT induce vomiting. Gastric lavage may be necessary (with proper laryngeal control). Before emptying the stomach, assess the potential danger arising from lung aspiration against the product toxicity. Report to Albaugh UK Ltd any unusual symptoms occurring after exposure by any route.

5. Fire fighting measures

<i>Suitable extinguishing media:</i>	Carbon dioxide, water spray, alcohol-resistant foam, dry chemical for small fires, alcohol-resistant foam or water spray for large fires.
<i>Unsuitable extinguishing media:</i>	Solid water jet.
<i>Special hazards:</i>	May evolve toxic and irritant fumes in fire (nitrogen oxides, carbon oxides and phosphorus oxides). Avoid breathing smoke or mists when fire fighting.
<i>Protective equipment:</i>	Use a positive pressure, self-contained breathing apparatus and protective clothing.
<i>Further information:</i>	Call the Fire Brigade at once to deal with all fires involving pesticides unless the fire is small and immediately controllable. Spray unopened containers with a mist spray to keep cool. If without risk, remove intact containers from exposure to fire. Contain fire-fighting water, bunding if necessary with sand or earth. Do not allow contamination of public drains or surface or ground waters. Dispose of fire debris and contaminated water as advised in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings".

Version 1 UK

Issue date: 16-07-2008

6. Accidental release measures

<i>Personal precautions:</i>	Wear prescribed protective clothing, refer to precautions outlined in Section 8.
<i>Environmental precautions:</i>	Use appropriate containment to avoid environmental contamination. Control the release at its source. Contain the spill to prevent it from spreading, contaminating soil or entering sewage and drainage systems or any body of water. Inform the local water company if the release enters drains and the Environment Agency (England and Wales), the Scottish Environmental Protection Agency (Scotland) or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Do not allow people or animals to access the contaminated area.
<i>Methods for cleaning up:</i>	Clean up spills immediately. Contain spill by diking with earth, sand or absorbent material and place it into a compatible marked disposal container. Scrub area with a hard water detergent. Soak up wash liquid with additional absorbent material and place into a marked disposal container. Once all material is cleaned up and placed in a container, seal and arrange for disposal according to Section 13.

7. Handling and storage

CAUTION: HANDLE WITH CARE.

Handling:	Avoid all contact by mouth, with eyes and skin. Wear personal protective equipment as specified in Section 8. When using, do not eat, drink or smoke. Wash hands and exposed skin before meals and after work. Wash all protective clothing thoroughly after use, especially the insides of gloves.
Storage:	Keep in original container, tightly closed, in a dry, cool and safe place. Store in a locked, suitable pesticide store. Keep out of the reach of children and unauthorised personnel. Keep away from food, drink and animal feeding stuffs. Keep dry and frostproof in a suitable pesticide store. Keep away from heat and sources of ignition. DO NOT STORE in galvanised or unlined mild steel containers (see section 10).
Specific uses:	For professional use exclusively as a herbicide as directed by the product label, every other use is hazardous.

8. Exposure control/personal protection

Comply with the Health and Safety at Work etc. Act 1974, as amended, the Control of Substances Hazardous to Health Regulations 1999 (COSHH), as amended, and the instructions indicated on the label.

Exposure limit values: No specific occupational exposure limit values have been set for the preparation or any of its components.

Exposure controls: In order to minimize worker and environmental exposure, use engineering controls and appropriate work processes in preference to personal protective equipment in the areas where the preparation is handled, transported, loaded, unloaded, stored and used.

Occupational exposure controls Provide adequate ventilation. Use specialized transfer systems if available. Wear suitable protective gloves and face protection (faceshield) when handling or applying the concentrate. Wear suitable protective clothing (waterproof jacket and trousers), suitable protective gloves and rubber boots when using a knapsack sprayer, hand-held rotary atomiser cda sprayer and hand-held weedwiper equipment. Wear suitable protective clothing (waterproof jacket and trousers), suitable protective gloves, rubber boots and face protection (faceshield) when using spot-gun equipment, making cut-stump treatments or carrying out stem injection. Wash concentrate from skin or eyes immediately. Do not breathe spray. Wash hands and exposed skin before meals and after work. Wash all protective clothing thoroughly after use, especially the insides of gloves. When using do not eat, drink or smoke..

Respiratory protection: No special requirement when used as recommended. For direct exposure to the product, and if potential for skin contact is high, use a full mask with a multi range filter (categories ABEK-P2).

Hand protection: Wear suitable protective gloves against chemicals (EN 374 part 1, 2, 3). Nitrile rubber min. 0.5mm thick and 300mm long gloves are the ones proven to be the most suitable according to tests on pesticide products. Wash the gloves thoroughly after each use, especially the insides. Replace gloves if damaged and before exceeding the breakthrough time.

Eye protection: Avoid contact with eyes. If there is a significant potential for contact, wear suitable eye protection (EN 166).

Skin protection: Avoid contact with skin. If there is a significant potential for contact, wear suitable coveralls (ISO 13982-1, Type 5, EN 13034, Type 6).

Environmental exposure controls Implement all applicable local and community environmental protection legislation. Use appropriate containment to avoid environmental contamination. Do not contaminate water with the product or its container except when used as directed. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads. Refer to Section 12 and 13.

9. Physical and chemical properties

General information

Appearance: Liquid
Colour: Amber
Odour: Faint amine

Important health, safety and environmental information

pH: 5.0 at 25°C
Flash point: None (water based)

Version 1 UK

Issue date: 16-07-2008

<i>Water solubility:</i>	Completely miscible with water
<i>Viscosity:</i>	75.1 mPa.s at 20°C 31.2 at 40°C
<i>Boiling point:</i>	100 °C
<i>Specific gravity:</i>	1.175 g/cm ³ at 20°C

10. Stability and reactivity

Conditions to avoid:	Reacts with galvanised steel and unlined mild steel with the release of hydrogen, a highly flammable gas that may explode. Do not store in proximity of sources of ignition and direct sunlight.
Materials to avoid:	Galvanised steel and unlined mild steel containers.
Hazardous decomposition products:	None under correct storage and handling conditions. During decomposition evolves toxic and irritating fumes.

11. Toxicological information

<i>Acute oral LD₅₀ (rat):</i>	>5000 mg/kg
<i>Acute dermal LD₅₀ (rabbit):</i>	>5000 mg/kg
<i>Inhalation:</i>	> 2.5 mg/l
<i>Skin irritation:</i>	Mild irritant
<i>Eye irritation:</i>	Moderate eye irritant.
<i>Sensitisation (guinea pig):</i>	Not sensitising (based on information for similar materials).
<i>Carcinogen status:</i>	No evidence of carcinogenicity.
<i>Mutagenicity:</i>	No evidence of mutagenicity.
<i>Reproductive toxicity:</i>	No evidence of teratogenicity.

12. Ecological information

Ecotoxicity

<i>LC₅₀ Fish:(Oncorhynchus mykiss) 96h:</i>	8.2 mg/l
<i>EC₅₀ Aquatic Invertebrates (Daphnia magna) 48h:</i>	11.0mg/l
<i>Acute oral LD₅₀ (Mallard duck):</i>	>5620 mg/kg
<i>ErC₅₀ (Selenastrum capricornutum) 72 h</i>	8.0 mg/l
<i>Honey bees</i>	Non toxic to bees.

Mobility:	Not determined.
Persistence and degradability:	Not determined
Bioaccumulative potential:	Not determined.
Other adverse effects:	Not determined.

Version 1 UK

Issue date: 16-07-2008

13. Disposal considerations

Disposal of waste product, contaminated packaging materials and any excess diluted spray should be in accordance with The Hazardous Waste (England and Wales) Regulations 2005 and any other applicable local or national legislation (for guidance refer to the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings").

For the handling and management of accidental release, follow the information given under Section 6 and 7.

This material and its container must be disposed of in a safe way.

14. Transport information

The preparation is classified as dangerous for transport.

Land transport ADR/RID (cross-border)

ADR/RID-GGVS/E Class:	9 (M6)
Kemler number:	90
UN number:	3082
Packaging group:	III
Label:	9
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains glyphosate and polyoxyethylene amine ethoxylate).
CEFIC Tremcard number:	90GM6-III

Maritime transport IMDG

IMO/IMDG Class:	9
UN number:	3082
Label:	9
Packaging group:	III
Marine pollutant:	No
Correct technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains glyphosate and polyoxyethylene amine ethoxylate).

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class:	9
UN/ID number:	3082
Label:	9
Packaging group:	III
Correct technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains glyphosate and polyoxyethylene amine ethoxylate).

Version 1 UK

Issue date: 16-07-2008

15. Regulatory information

This preparation is a herbicide classified as "Xi": Irritant and "N": Dangerous for the environment in accordance with The Chemicals (Hazard Information & Packaging for Supply) Regulations 2002 (CHIP 3)¹⁾ and identified with the following symbols:

**IRRITANT****DANGEROUS FOR THE ENVIRONMENT**

Restrictions and health, safety and environmental information on the product label not mentioned elsewhere on this SDS:

Rinse container thoroughly by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of the container safely
To avoid risks to man and the environment, comply with the instructions for use.

Code letter and hazard designation of the preparation:

"Xi": Irritant

"N": Dangerous for the environment.

R-phrases:

38, 51/53.

S-phrases:

2, 13, 26, 35, 39, 57

This product is approved under the UK Control of Pesticides Regulations with MAPP no.13889.

For professional use only.

Comply with the Health and Safety at Work etc. Act 1974, as amended, the Control of Substances Hazardous to Health Regulations 1999 (COSHH), as amended, and the instructions indicated on the label.

¹⁾ implementing, among others:

The Dangerous Preparations Directive 1999/45/EC and its first ATP, 2001/60/EC;

The second Amendment, 2001/58/EC, of the Safety Data Sheet Directive 91/155/EEC;

The relevant parts of 2001/59/EC – the 28th ATP to the Dangerous Substances Directive 67/548/EEC.

Version 1 UK

Issue date: 16-07-2008

16. Other information

References/Sources of data:

- Commission Directive 2000/32/EC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances;
- Health and Safety at Work etc. Act 1974 as amended and Control of Substances Hazardous to Health Regulations 1999 as amended (COSHH).
- BS EN 347, part 1, 2, 3.

Code letter and hazard designation mentioned in Section 2 and 3:

Xi Irritant
Xn Harmful
N Dangerous for the environment

Full text of relevant R and S phases:

R-phrases:	R22	Harmful if swallowed
	R38	Irritating to skin
	R41	Risk of serious damage to eyes.
	R51/53	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
S-phrases:	S2	Keep out of reach of children.
	S13	Keep away from food, drink and animal feeding stuffs.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S35	This material and its container must be disposed of in a safe way.
	S39	Wear eye/face protection.
	S57	Use appropriate containment to avoid environmental contamination.

The information and recommendations in this publication are, to the best of our knowledge, information and belief, accurate at the date of publication. Nothing herein is to be construed as a warranty, expressed or implied. In all cases it is the responsibility of the user to determine the applicability of such information or the suitability of any products for their own particular purpose.

This Material Safety Data Sheet was compiled on 16/07/2008 in compliance with Regulation (EC) No. 1907/2006. This version replaces all previous versions.

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