

1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product identifier

Trade name

Rosate 36

1.2 Relevant identified uses of the mixture and uses advised against

1.2.1 Relevant identified uses

For professional use only as an agricultural/horticultural/industrial/forestry/aquatic herbicide.

1.2.2 Uses advised against

Do not use for any other purpose.

1.3 Details of the supplier of the safety data sheet

Albaugh Europe Sàrl
World Trade Center Lausanne
Avenue Gratta-Paille 2
1018 Lausanne
Switzerland

Telephone: + 41 21 799 9130
Fax: + 41 21 799 9139
Email: msds@albugheurope.eu
Web: www.albugheurope.eu

1.4 Emergency telephone number

For advice on medical emergencies, fires or major spills: +44 (0) 1235 239 670

Available: 24 h
Time Zone: GMT
Language(s) of phone service: All EU languages

UK National Poisons Information Service: +44 (0)121 507 4123 (For health professionals only)

Available: 24h
Time Zone: GMT
Language(s) of phone service: English

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) no. 1272/2008 [CLP/GHS]

This product has not yet been classified under Regulation (EC) no. 1272/2008 [CLP/GHS]

Classification according to Directive 67/548/EEC or 1999/45/EC

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

Additional information

For abbreviations, refer to Section 16.

2.2 Label elements

Labelling according to Directive 67/548/EEC or 1999/45/ECHazard pictogramsDANGEROUS FOR
THE ENVIRONMENTIndication of danger:

Dangerous for the environment

Risk phrases:

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

Safety advice:

S2: Keep out of reach of children.

S13: Keep away from food, drink and animal feeding stuffs.

S20/21: When using do not eat, drink or smoke.

S35: This material and its container must be disposed of in a safe way.

S57: Use appropriate containment to avoid environmental contamination.

2.3 Other hazards

None known

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Not relevant

3.2 Mixtures

Description of the mixture:

Mixture of glyphosate isopropylamine salt and co-formulants.

Chemical Name	CAS-No.	EC-No.	Index No.	Concentration (W/W)	67/548/EEC Classification	CLP (Reg. 1272/2008) Classification
N-(phosphonomethyl) glycine, compound with 2-propylamine (1:1)	38641-94-0	254-056-8	-	41.5 %	N; R51/53	Hazardous to the aquatic environment, Chronic hazard, Cat2, H411
Tallow alkylamine ethoxylate	61791-26-2	-	-	15.5 %	Xn; R22, R41, N; R50	Acute Toxicity, oral, Cat4, H302 Serious Eye Damage, Cat1, H318 Hazardous to the aquatic environment, Acute hazard, Cat1, H400
Other ingredients				to 100%	Not classified	Not classified

Additional information

For full text of R- and H-phrases, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General notes:

If symptoms occur after exposure to this product, seek medical attention immediately 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.

Following inhalation:

Remove to fresh air and keep at rest in half-upright position. Seek medical attention immediately.

Following skin contact:

Remove all contaminated clothing. Wash skin with soap and rinse with plenty of water. Seek medical attention if irritation arises. Wash clothes before re-use.

Following eye contact:

Immediately rinse with water. Holding eyes open, continue rinsing for 15 minutes at least. Remove contact lenses as soon as possible. Seek medical attention immediately.

Following ingestion:

If swallowed, DO NOT INDUCE VOMITING: seek medical advice immediately and show this container or label. Remove any

residues from mouth and rinse it with plenty of water. Offer the casualty 1 or 2 glasses of water to drink. Never give anything by mouth to an unconscious person.

Self-protection of first aider

Personal protective equipment for first aid responders is recommended according to potential for exposure (refer to Section 8).

Notes for the doctor:

No specific antidote. Treat symptomatically (decontamination, vital functions). Call a Poison Centre immediately for treatment advice. In case of ingestion 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 Europe Sàrl any unusual symptoms occurring after exposure by any route.

4.2 Most important symptoms and effects, both acute and delayed**Following inhalation:**

Possible slight nasal irritation and discharge. No delayed effects expected.

Following skin contact:

Possible slight transitory redness. No delayed effects expected.

Following eye contact:

Possible slight transitory redness and swelling. No delayed effects expected.

Following ingestion:

Possible mild gastrointestinal effects. No significant delayed effects expected.

4.3 Indication of immediate medical attention and special treatment needed

No need to provide any special means/medicinal products for immediate treatment at the workplace, no specific antidote available.

5. FIRE FIGHTING MEASURES**5.1 Extinguishing media****Suitable extinguishing media:**

Carbon dioxide, water spray, alcohol-resistant foam, dry chemical for small fires, alcohol-resistant foam or water spray for large fires.

Unsuitable extinguishing media:

Solid water jet.

5.2 Special hazards arising from the mixture**Hazardous combustion products**

Evolves toxic and corrosive fumes in fire including nitrogen oxides, carbon oxides and phosphorus oxides.

5.3 Advice for fire-fighters

Clothing conforming to EN469 should be sufficient to deal with fires involving the mixture.

However, a Self-Contained Breathing Apparatus (SCBA) may be required if there is a potential for exposure to combustion fumes.

5.4 Additional information

Provide storage and work areas with suitable fire extinguishers.

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".

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures****6.1.1 For non-emergency personnel**

Protective equipment: Remove immediately any contaminated clothing. Wear prescribed personal protective equipment to prevent contact with eyes and skin. A Self-Contained Breathing Apparatus (SCBA) may be required if there is an elevated risk for exposure.

Emergency procedures: Call the emergency services if the release is not immediately controllable. If the release is localized and immediately controllable, provide sufficient ventilation and control the release at its source.

6.1.2 For emergency responders

Clothing conforming to EN469.

6.2 Environmental precautions

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.

6.3 Methods and material for containment and cleaning up

For containment

Clean up spills immediately and place in a compatible disposal container. Contain spill by diking with earth, sand or absorbent material and place into a compatible marked disposal container.

For cleaning up

Scrub area with a hard water detergent. Soak up wash liquid with additional absorbent material and place into a compatible marked disposal container. Seal container and arrange for disposal.

Other information

Not Applicable

6.4 Reference to other sections

Refer to Section 8 for personal protective equipment and to Section 13 for disposal instructions.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide suitable ventilation in the areas where the product is stored and used. Contaminated work clothing should not be allowed out of the workplace. 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. Remove contaminated clothing and protective equipment before meals and after work. Wash hands and exposed skin before meals and after work. Wash all protective clothing thoroughly after use, especially the insides of gloves.

7.2 Conditions for safe storage, including any incompatibilities

The mixture is stable under normal ambient conditions. Keep in original container, in a dry, cool and safe place. Store in a locked, suitable store. Keep away from any source of ignition. Keep out of the reach of children and unauthorised personnel. Keep away from food, drink and animal feeding stuffs.

7.3 Specific end use(s)

Herbicide for professional use as directed by the product label, every other use is hazardous.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control Parameters

Occupational Exposure limit values

No occupational Exposure limit values have been set for the mixture or its components.

Information on monitoring procedures

None available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Engineering controls and appropriate work processes must be used to eliminate or reduce worker and environmental exposure in the areas where the substance is handled, transported, loaded, unloaded, stored and used. These measures must be adequate for the extent of the actual risk. Provide adequate local exhaust ventilation. Use specialized transfer systems if available.

8.2.2 Personal protection equipment

Eye and face protection

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

Skin protection:

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.

Body 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).

Other skin protection: None specified.

Respiratory protection: No special requirement when used as recommended. If a risk assessment shows that engineering controls do not provide adequate respiratory protection to exposure to spray particles, wear particle filtering half mask (EN 149) or half mask connected to particle filter (EN 140 + 143).

8.2.3 Environmental exposure controls

Implement all applicable local and community environmental protection legislation. Refer to Section 15. Use appropriate containment to avoid environmental contamination. Do not empty into drains. Do not contaminate water with the product or used container. 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**9.1 Information on basic physical and chemical properties**

a) <i>Appearance:</i>	Liquid
<i>Colour:</i>	Amber
b) <i>Odour:</i>	Faint amine
c) <i>Odour threshold:</i>	Not determined – not required under all applicable pesticide legislation.
d) <i>pH:</i>	5.07 undiluted formulation 4.7 (1% dilution in water)
e) <i>Melting point/freezing point:</i>	Not applicable – the mixture is a liquid at ambient temperature and must be protected from frost
f) <i>Initial boiling point and boiling range:</i>	Approximately 100 °C
g) <i>Flash point:</i>	None – the mixture is water-based
h) <i>Evaporation rate:</i>	Not available - not required under all applicable pesticide legislation.
i) <i>Flammability (solid, gas):</i>	Not applicable (liquid)
j) <i>Upper/lower flammability or explosive limits:</i>	Not applicable – the mixture is water-based
k) <i>Vapour pressure:</i>	No significant volatility – the mixture is water-based
l) <i>Vapour density:</i>	Not applicable - not required under all applicable pesticide legislation.
m) <i>Density:</i>	1.175 g/cm ³ at 20°C
n) <i>Solubility(ies)</i>	
<i>Solubility (water):</i>	Completely soluble in water
o) <i>Partition coefficient: n-octanol/water:</i>	Glyphosate acid: Log P _{o/w} < -3.2 (25 °C, pH value:5-9)
p) <i>Auto-ignition temperature:</i>	>400 °C
<i>Minimum Ignition Temperature:</i>	Not available
<i>Minimum Ignition Energy:</i>	Not available
q) <i>Decomposition temperature:</i>	Glyphosate acid: 199.1 °C
r) <i>Viscosity:</i>	67.6 mPa.s at 20°C, 27.3 mPa.s at 40°C
s) <i>Explosive properties:</i>	Explosion hazard: not explosive.
t) <i>Oxidising properties:</i>	Not an oxidising agent.

9.2 Other information

<i>Surface tension:</i>	36.8 mNm
<i>Flammability (in contact with water):</i>	Not flammable

10. STABILITY AND REACTIVITY

10.1 Reactivity

Non-reactive when stored in original container under normal conditions of storage and use.

10.2 Chemical stability

Stable when stored in original container under normal conditions of storage and use.

10.3 Possibility of hazardous reactions

No hazardous reactions when stored in original container under normal conditions of storage and use. Reacts with strong bases and strong oxidising substances, galvanised steel and unlined mild steel with the release of hydrogen, a highly flammable gas that may explode.

10.4 Conditions to avoid

Contact with galvanised steel and unlined mild steel, strong bases and strong oxidising substances. Do not store in proximity of sources of ignition and direct sunlight.

10.5 Incompatible materials

Galvanised steel and unlined mild steel. Avoid contact with strong bases and strong oxidising substances.

10.6 Hazardous decomposition products

During decomposition evolves toxic fumes including nitrogen oxides, carbon oxides and phosphorus oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Substances

Not Applicable

11.1.2 Mixtures

All the data contained in this section are derived from actual test data on the mixture unless otherwise stated.

a) Acute toxicity:

LD₅₀ oral, rat: >5000 mg/kg bw

LD₅₀ dermal, rabbit: >5000 mg/kg bw

LC₅₀ inhalation, rat: >5.12 mg/l

b) Irritation:

Skin: Slight irritant (not classified as a skin irritant under Directive 1999/45/EC)

Eye: Mild eye irritant (not classified as an eye irritant under Directive 1999/45/EC)

c) Corrosivity:

Not classified as corrosive on the basis of skin and eye irritation studies

d) Sensitisation:

The product is not classified as a respiratory or skin sensitizer in animal studies

e) Repeated dose toxicity:

Not classified as hazardous for repeated dose toxicity on the basis of mixture component information

f) Carcinogenicity:

Not classified as carcinogenic on the basis of mixture component information

g) Mutagenicity:

Not classified as mutagenic on the basis of mixture component information

h) Toxicity for reproduction:

Not classified as a reproductive toxicant on the basis of mixture component information

Likely routes of exposure and related long and short term symptoms and health effects:

Inhalation: There is a low risk of exposure by inhalation.

Short-term symptoms and effects:

Possible slight nasal irritation and discharge.

Long-term symptoms and effects:

No evidence of long-term effects after prolonged or repeated exposure.

Eye contact: There is a risk of exposure by eye contact.

Short-term symptoms and effects:

Possible slight transitory redness and swelling.

Long-term symptoms and effects:

No evidence of long-term effects after prolonged or repeated exposure.

Skin contact: There is a risk of exposure by skin contact.

Short-term symptoms and effects:

Possible slight transitory redness.

Long-term symptoms and effects:

No evidence of long-term effects after prolonged or repeated exposure.

Ingestion: There is a very low risk of accidental exposure by ingestion.

Short-term symptoms and effects:
Possible mild gastrointestinal effects.

Long-term symptoms and effects:
No evidence of long-term effects after prolonged or repeated exposure.

12. ECOLOGICAL INFORMATION

All the information and data contained in this section are derived from data on similar mixtures.

12.1 Toxicity

Acute Toxicity

LC ₅₀ fish, <i>Oncorhynchus mykiss</i> (96h):	8.2 mg/l
EC ₅₀ aquatic invertebrates, <i>Daphnia magna</i> (48h):	11.0 mg/l
ErC ₅₀ algae, <i>Selenastrum capricornutum</i> (72h):	8.0 mg/l
LD ₅₀ birds, <i>Mallard duck</i> :	>5620 mg/kg
Honey bees:	
LD ₅₀ oral, <i>Apis mellifera</i> (48h):	>395 µg/bee
LD ₅₀ contact, <i>Apis mellifera</i> (48h):	>338 µg/bee

12.2 Persistence and degradability:

Not readily biodegradable

12.3 Bioaccumulative potential:

No significant potential for bioaccumulation

12.4 Mobility in soil:

Not readily mobile, binds strongly to soil

12.5 Results of PBT and vPvB assessment:

No PBT or vPvB assessments have been carried out on the mixture; please refer to 12.1, 12.2 & 12.3.

12.6 Other adverse effects:

Not determined.

12.7 Additional Information:

None

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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.

14. TRANSPORT INFORMATION

14.1 UN number

UN 3082

14.2 UN Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains N-(phosphonomethyl)glycine, compound with 2-propylamine (1:1) and tallow alkylamine ethoxylate)

14.3 Transport hazard class(es)

9

14.4 Packing group

III

14.5 Environmental hazards

Land transport ADR/RID - Environmentally Hazardous: Yes

Maritime transport IMDG - Marine pollutant: Yes

Land transport ADR/RID - Tunnel restriction code: E

14.6 Special Precautions for User

IBC Code: IBC03

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. REGULATORY INFORMATION

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

EU Regulations

REGULATION (EC) No 1107/2009 of The European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC. Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances

DIRECTIVE 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.

REGULATION (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

National Regulations/legislation:

The Chemicals (Hazard Information & Packaging for Supply) Regulations 2009 (CHIP 4)

Health and Safety at Work etc. Act 1974, as amended, the Control of Substances Hazardous to Health Regulations 1999 (COSHH), as amended.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment under Regulation (EC) 1907/2006 is required and has not been carried out.

16. OTHER INFORMATION

a) Indication of changes:

The numbering system identifying new versions and/or revisions of this SDS is incremental. An increment by an integer number identifies the issue of a new version requiring provision of updates according to Article 31(9) of REACH, while an increment by a decimal identifies minor changes such as typographical errors, text improvements and/or formatting.

Revisions indicated by a decimal point do not affect the risk management measures or information on hazards, do not refer to restrictions imposed and/or to authorisations granted or refused.

The paragraphs where changes have been made are indicated by the symbol '!' in the margin.

b) Abbreviations and acronyms:

N: Dangerous for the environment.

Xn: Harmful.

c) Key literature references and sources for data:

Albaugh Europe Sàrl

ECHA Guidance on the compilation of safety data sheets (Version 1.1, December 2011)

d) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Not Applicable

e) Relevant R-phrases, H-statements and precautionary statements not written out in full under Sections 2 to 15:

R22 Harmful if swallowed.

R41 Risk of serious damage to eyes.

R50 Very toxic to aquatic organisms.

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

H302 Harmful if swallowed

H318 Causes serious eye damage

H400 Very toxic to aquatic life

H411 Toxic to aquatic life with long lasting effects

f) Training advice:

General occupational hygiene training recommended.

g) Further information:

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 by Albaugh Europe Sàrl (msds@albaughurope.eu) in compliance with Regulation (EC) 1907/2006 as amended by 453/2010.