

Version 8 - This version replaces all previous versions.

Revision Date 17/01/2014

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name : PROLIANCE QUATTRO

Design code : A12798QA

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

Use : Herbicide

1.3 Details of the supplier of the safety data sheet

Company Syngenta UK Limited

CPC4, Capital Park Fulbourn, Cambridge

CB21 5XE

Telephone : (01223) 883400 **Telefax** : (01223) 882195

Website : www.syngenta.co.uk

1.4 Emergency telephone number

: +44 (0) 1484 538444

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

Chronic aquatic toxicity Category 2 H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Not classified according to EU legislation

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2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

Hazard pictograms

¥2>

Signal Word :Warning

Hazard Statements :H410 Toxic to aquatic life with long lasting effects

Precautions Statements :P273 Avoid release to the environment

:P391 Collect spillage

:P501 Dispose of contents/container to a licensed

hazardous-waste disposal contractor or collection site except for empty clean containers which can be

disposed of as non-hazardous waste.

Supplemental :EUH401 To avoid risks to human health and the environment

Information comply with the instructions for use.

Hazardous components which must be listed on the label:

Labelling: EU Directives 67/548/EEC or 1999/45/EC

2.3 Other hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
Glyphosate diammonium	69254-40-6	N R51/53	Aquatic Chronic2; H411	34 % W/W
D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1 01-2119488530-36-0 000	Xi R41	Eye Dam.1; H318	10 - 20 % W/W

Substances for which there are Community workplace exposure limits.

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice : Have the product container, label or Material Safety Data Sheet with you

when calling the Syngenta emergency number, a poison control center or

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physician, or going for treatment.

Inhalation : Move the victim to fresh air. If breathing is irregular or stopped, administer

artificial respiration. Keep patient warm and at rest. Call a physician or

poison control centre immediately.

Skin contact: Take off all contaminated clothing immediately. Wash off immediately with

plenty of water. If skin irritation persists, call a physician. Wash

contaminated clothing before re-use.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Remove contact lenses. Immediate medical attention is required.

Ingestion : If swallowed, seek medical advice immediately and show this container or

label. Do NOT induce vomiting: contains petroleum distillates and/or

aromatic solvents.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No information available

4.3 Indication of any immediate medical attention and special treatment needed

Medical advice

There is no specific antidote available. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires

Use alcohol-resistant foam or water spray.

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of

combustion (see section 10). Exposure to decomposition products may

be a hazard to health.

5.3 Advice for fire-fighters:

Wear full protective clothing and self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses. Cool

closed containers exposed to fire with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8. Keep people away from and upwind of spill/leak. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of imitian.

ignition. Pay attention to flashback.

6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material,

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(e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8. Refer to disposal considerations listed in section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

Registered Crop Protection products: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
glyphosate	10 mg/m3	8 h TWA	SYNGENTA

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

8.2 Exposure controls

Engineering measures	:	Containment and/or segregation is the most reliable technical protection
		measure if exposure cannot be eliminated. The extent of these
		protection measures depends on the actual risks in use. If airborne
		dust is generated, use local exhaust ventilation controls. Assess
		exposure and use any additional measures to keep airborne levels
		below any relevant exposure limit. Where necessary, seek additional

occupational hygiene advice.

Protective measuresThe use of technical measures should always have priority over the use

of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective

equipment should be certified to appropriate standards.

Respiratory protection No personal respiratory protective equipment normally required. A

particulate filter respirator may be necessary until effective technical

measures are installed.

Hand protection Chemical resistant gloves are not usually required. Select gloves based

on the physical job requirements.

Eye protection Eye protection is not usually required. Follow any site specific eye

protection policies.

Skin and body protection No special protective equipment required. Select skin and body

protection based on the physical job requirements.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State Liquid **Form** Liquid

Colour light brown to dark brown

Odour sweetish, weak **Odour Threshold** No data available 6.8 at 25 °C Melting point/range No data available Boiling point/boiling range No data available

Flash point > 104 °C

Evaporation rate : No data available Flammability (solid, gas) No data available Lower explosion limit No data available Upper explosion limit No data available Vapour pressure No data available Relative vapour density No data available 1.268 g/cm3 at 20 °C **Density** Solubility in other solvents : No data available No data available

Partition Coefficient

n-octanol/water

Autoignition temperature No data available Thermal decomposition No data available Viscosity, dynamic : 71 mPa.s at 20 °C 50 mPa.s at 40 °C

: No data available Viscosity, kinematic **Explosive properties** Not explosive **Oxidizing properties** Not oxidising

9.2 Other information

reactions

products

Surface tension 42.6 mN/m at 20 °C

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity : No information available 10.2 Chemical Stability No information available

10.3 Possibility of hazardous None known. Hazardous polymerisation does not

occur.

10.4 Conditions to avoid No information available 10.5 Incompatible materials No information available

10.6 **Hazardous decomposition** Combustion or thermal decomposition will evolve

toxic and irritant vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity LD50 female rat, > 5,000 mg/kg

Acute inhalational toxicity : LC50 male and female rat, > 5.12 mg/l, 4 h

The toxicological data has been taken from products of similar

Acute dermal toxicity LD50 male and female rat, > 5,000 mg/kg

Skin corrosion/irritation rabbit: Mildly irritating

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Serious eye damage/eye

irritation

Respiratory or skin

sensitisation

Buehler Test guinea pig: Not a skin sensitizer in animal tests.

Germ cell mutagenicity

glyphosate-diammonium

Carcinogenicity

glyphosate-diammonium D-Glucopyranose, oligomeric,

decyl octyl glycosides

Teratogenicity

glyphosate-diammonium

Reproductive toxicity glyphosate-diammonium

D-Glucopyranose, oligomeric,

decyl octyl glycosides STOT - repeated exposure

glyphosate-diammonium

: rabbit: Mildly irritating

Did not show mutagenic effects in animal experiments.

Did not show carcinogenic effects in animal experiments.

Not classifiable as a human carcinogen.

Did not show teratogenic effects in animal experiments.

Did not show reproductive toxicity effects in animal experiments.

No toxicity to reproduction

No adverse effect has been observed in chronic toxicity tests.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish : LC50 Oncorhynchus mykiss (rainbow trout), 800 mg/l, 96 h

Based on test results obtained with similar product.

Toxicity to aquatic invertebrates EC50 Daphnia magna (Water flea), 160 mg/l, 48 h

Based on test results obtained with similar product.

Toxicity to aquatic plants EbC50 Desmodesmus subspicatus (green algae), 140 mg/l, 72 h

ErC50 Desmodesmus subspicatus (green algae), > 320 mg/l, 72 h

Based on test results obtained with similar product.

12.2 Persistence and degradability

Stability in water

Glyphosate-diammonium

Stability in soil

Degradation half life: 302 d. Persistent in water.

Degradation half life: 1.4 - 19 d. Not persistent in soil.

Glyphosate-diammonium 12.3 Bioaccumulative potential

Glyphosate-diammonium .No data available

12.4 Mobility in soil

Glyphosate-diammonium : Immobile in soil.

12.5 Results of PBT and vPvB assessmen

Glyphosate-diammonium, D-Glucopyranose, oligomeric, decyl octyl

glycosides

These substances are not considered to be persistent,

bioaccumulating nor toxic (PBT).

These substances are not considered to be very persistent nor

very bioaccumulating (vPvB).

12.6 Other adverse effects

:Classification of the product is based on the summation of the concentrations of classified components.

SECTION 13: DISPOSAL CONSIDERATIONS

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13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with

chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in

compliance with local regulations.

Contaminated packaging : Empty remaining contents. Triple rinse containers. Empty

containers should be taken for local recycling or waste

disposal. Do not re-use empty containers.

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID)

14.1	UN Number	:	UN 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
			LIQUID, N.O.S. (GLYPHOSATE DIAMMONIUM)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
Label	S	:	9
14.5	Environmental hazards	:	Environmentally hazardous
	Tunnel restriction code		E

Sea transport(IMDG)

14.1	UN Number	:	UN
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
			LIQUID, N.O.S. (GLYPHOSATE DIAMMONIUM)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
Label	S	:	9
14.5	Environmental hazards	:	Marine Pollutant

Air transport (IATA-DGR)

14.1	UN Number	:	UN
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
			LIQUID, N.O.S. (GLYPHOSATE DIAMMONIUM)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
Labels		:	9
14.6	Special precautions for	:	none
	user		

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

not applicable

SECTION 15: REGULATORY INFORMATION

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

GHS-Labelling

Hazard pictograms



:Warning

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Hazard Statements :H410 Toxic to aquatic life with long lasting effects **Precautions Statements** :P273 Avoid release to the environment :P391 Collect spillage :P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste. Supplemental :EUH401 To avoid risks to human health and the environment Information comply with the instructions for use.

Hazardous components which must be listed on the label:

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: OTHER INFORMATION

Further information

Approval number, MAPP.13670

Use plant protection products safely. Always read the label and product information before use.

Based upon SDS release dated 17/01/2014, version 8 with local amendment.

Full text of R-phrases referred to under sections 2 and 3:

R41 Risk of serious damage to eyes

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

environment.

Full text of H-Statements referred to under sections 2 and 3.

H318 Causes serious eye damage

H411 Toxic to aquatic life with long lasting effects

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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