

TOUCHDOWN QUATTRO

Version 11.0 Revision Date: 10.03.2021 SDS Number: S1101449422 This version replaces all previous versions.

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

1.1 Product identifier

Trade name : TOUCHDOWN QUATTRO
Design code : A12798QA
Product Registration Number : MAPP 10608

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

Use of the Substance/Mixture : Herbicide
Recommended restrictions on use : professional use

1.3 Details of the supplier of the safety data sheet

Company : Syngenta UK Limited
CPC4, Capital Park
Fulbourn, Cambridge CB21 5XE
United Kingdom
Telephone : +44 (0) 1223 883400
Telefax : +44 (0) 1223 882195
E-mail address of person responsible for the SDS : customer.services@syngenta.com

1.4 Emergency telephone number

Emergency telephone number : +44 1484 538444

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)


Long-term (chronic) aquatic hazard, Category 2 H411: Toxic to aquatic life with long lasting effects.

TOUCHDOWN QUATTRO

Version 11.0 Revision Date: 10.03.2021 SDS Number: S1101449422 This version replaces all previous versions.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

- Hazard pictograms : 
- Signal word : Warning
- Hazard statements : H411 Toxic to aquatic life with long lasting effects.
- Supplemental Hazard Statements : EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
- Precautionary statements : P102 Keep out of reach of children.
- Prevention:**
P270 Do not eat, drink or smoke when using this product.
- Response:**
P391 Collect spillage.
- Disposal:**
P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty triple rinsed clean containers which can be disposed of as non-hazardous waste.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
glyphosate-diammonium	69254-40-6 015-184-00-8	Aquatic Chronic 2; H411	>= 30 - < 50

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



TOUCHDOWN QUATTRO

Version 11.0 Revision Date: 10.03.2021 SDS Number: S1101449422 This version replaces all previous versions.

D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1 500-220-1 01-2119488530-36	Eye Dam. 1; H318	>= 3 - < 10
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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
- If inhaled : 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.
- In case of 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.
- In case of 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.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label.
Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Nonspecific
No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : There is no specific antidote available.
Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Extinguishing media - small fires
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media - large fires
Alcohol-resistant foam

SAFETY DATA SHEET

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TOUCHDOWN QUATTRO

Version 11.0 Revision Date: 10.03.2021 SDS Number: S1101449422 This version replaces all previous versions.

Unsuitable extinguishing media : 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

Specific hazards during firefighting : 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 firefighters

Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.
Further information : 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

Personal precautions : Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.
Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Clean contaminated surface thoroughly.
Clean with detergents. Avoid solvents.
Retain and dispose of contaminated wash water.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : No special protective measures against fire required.

TOUCHDOWN QUATTRO

Version 11.0 Revision Date: 10.03.2021 SDS Number: S1101449422 This version replaces all previous versions.

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

Requirements for storage areas and containers : 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.

Further information on storage stability : Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

7.3 Specific end use(s)

Specific use(s) : 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

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
ammonium sulphate	Workers	Dermal	Long-term systemic effects	42.67 mg/kg
	Workers	Inhalation	Long-term systemic effects	11.17 mg/m ³
	Consumers	Oral	Long-term systemic effects	6.4 mg/kg
D-Glucopyranose, oligomeric, decyl octyl glycosides	Consumers	Inhalation	Long-term systemic effects	1.67 mg/m ³
	Consumers	Dermal	Long-term systemic effects	12.8 mg/kg
	Workers	Dermal	Chronic effects	595000 mg/kg
	Workers	Inhalation	Chronic effects	420 mg/m ³
	Consumers	Dermal	Chronic effects	357000 mg/kg
	Consumers	Inhalation	Chronic effects	124 mg/m ³
	Consumers	Ingestion	Chronic effects	35.7 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
ammonium sulphate	Fresh water	0.312 mg/l
	Marine water	0.0312 mg/l
	Intermittent use/release	0.53 mg/l
	Sewage treatment plant	16.18 mg/l
	Fresh water sediment	0.063 mg/kg
	Soil	62.6 mg/kg

TOUCHDOWN QUATTRO

Version 11.0 Revision Date: 10.03.2021 SDS Number: S1101449422 This version replaces all previous versions.

D-Glucopyranose, oligomeric, decyl octyl glycosides	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l
	Fresh water sediment	0.487 mg/kg
	Marine sediment	0.048 mg/kg
	Soil	0.654 mg/kg

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.

Maintain air concentrations below occupational exposure standards.
Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Eye protection : No special protective equipment required.
Hand protection

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : 0.5 mm

Remarks : Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Remove and wash contaminated clothing before re-use.

Wear as appropriate:

Impervious clothing

Respiratory protection : No personal respiratory protective equipment normally required.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

TOUCHDOWN QUATTRO

Version 11.0 Revision Date: 10.03.2021 SDS Number: S1101449422 This version replaces all previous versions.

Protective measures : The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid
Colour : light brown to dark brown

Odour : sweetish, weak
Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flammability : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : Method: Pensky-Martens closed cup
does not flash

Auto-ignition temperature : > 650 °C

Decomposition temperature
Decomposition temperature : No data available

pH : 6.7
Concentration: 100 %

Viscosity
Viscosity, dynamic : 71 mPa.s (20 °C)
50 mPa.s (40 °C)

Viscosity, kinematic : No data available

Solubility(ies)
Water solubility : No data available
Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

TOUCHDOWN QUATTRO

Version 11.0 Revision Date: 10.03.2021 SDS Number: S1101449422 This version replaces all previous versions.

Vapour pressure : No data available
Density : 1.268 g/cm³ (20 °C)
Relative vapour density : No data available
Particle characteristics
Particle size : No data available

9.2 Other information

Explosives : Not explosive
Oxidizing properties : The substance or mixture is not classified as oxidizing.
Evaporation rate : No data available
Surface tension : 42.6 mN/m, 0.1 %

SECTION 10: Stability and reactivity

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure : Ingestion
Inhalation
Skin contact
Eye contact

TOUCHDOWN QUATTRO

Version 11.0 Revision Date: 10.03.2021 SDS Number: S1101449422 This version replaces all previous versions.

Acute toxicity

Product:

- Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg
Remarks: Based on data from similar materials
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5.12 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Based on data from similar materials
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Remarks: Based on data from similar materials

Skin corrosion/irritation

Product:

- Species : Rabbit
Result : Mild skin irritation
Remarks : Based on data from similar materials

Serious eye damage/eye irritation

Product:

- Species : Rabbit
Result : No eye irritation
Remarks : Based on data from similar materials

Components:

D-Glucopyranose, oligomeric, decyl octyl glycosides:

- Species : Rabbit
Result : Irreversible effects on the eye

Respiratory or skin sensitisation

Product:

- Test Type : Buehler Test
Species : Guinea pig
Result : Did not cause sensitisation on laboratory animals.
Remarks : Based on data from similar materials

Germ cell mutagenicity

Components:

glyphosate-diammonium:

- Germ cell mutagenicity-Assessment : Animal testing did not show any mutagenic effects.

TOUCHDOWN QUATTRO

Version 11.0 Revision Date: 10.03.2021 SDS Number: S1101449422 This version replaces all previous versions.

Carcinogenicity

Components:

glyphosate-diammonium:

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Components:

glyphosate-diammonium:

Reproductive toxicity - Assessment : No toxicity to reproduction

Repeated dose toxicity

Components:

glyphosate-diammonium:

Remarks : No adverse effect has been observed in chronic toxicity tests.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

glyphosate-diammonium:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 86 mg/l
Exposure time: 96 h
The value is given in analogy to the following substances:
glyphosate (ISO)
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 780 mg/l
Exposure time: 48 h
The value is given in analogy to the following substances:
glyphosate (ISO)
- Toxicity to algae/aquatic plants : EC50 (Skeletonema costatum (marine diatom)): 1.3 mg/l
Exposure time: 4 d
The value is given in analogy to the following substances:

TOUCHDOWN QUATTRO

Version 11.0 Revision Date: 10.03.2021 SDS Number: S1101449422 This version replaces all previous versions.

glyphosate (ISO)

NOEC (green algae): > 1 mg/l
The value is given in analogy to the following substances:
glyphosate (ISO)

Toxicity to fish (Chronic toxicity) : NOEC: > 25.7 mg/l
Species: Fish
The value is given in analogy to the following substances:
glyphosate (ISO)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 50 mg/l
Species: Invertebrates
The value is given in analogy to the following substances:
glyphosate (ISO)

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

D-Glucopyranose, oligomeric, decyl octyl glycosides:

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 560 mg/l

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

Components:

glyphosate-diammonium:

Distribution among environmental compartments : Remarks: immobile

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

Components:

glyphosate-diammonium:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB)..

TOUCHDOWN QUATTRO

Version 11.0 Revision Date: 10.03.2021 SDS Number: S1101449422 This version replaces all previous versions.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

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 to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.
- Waste Code : uncleaned packagings
15 01 10, packaging containing residues of or contaminated by hazardous substances
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SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



TOUCHDOWN QUATTRO

Version 11.0 Revision Date: 10.03.2021 SDS Number: S1101449422 This version replaces all previous versions.

regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

- REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
Number on list 3
ammonium sulphate (Number on list 65)
- REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable
- REACH - List of substances subject to authorisation (Annex XIV) : Not applicable
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
- Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable
- Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable
- Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2	ENVIRONMENTAL HAZARDS	Quantity 1 200 t	Quantity 2 500 t
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Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

SECTION 16: Other information

Full text of H-Statements

- H318 : Causes serious eye damage.
H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

- Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Dam. : Serious eye damage

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



TOUCHDOWN QUATTRO

Version 11.0 Revision Date: 10.03.2021 SDS Number: S1101449422 This version replaces all previous versions.

Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Aquatic Chronic 2 H411

Classification procedure:

Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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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