

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



TOUCHDOWN QUATTRO

Version	Revision Date:	SDS Number:	Date of last issue: 19.12.2024
12.0	13.07.2026	S1101449422	Date of first issue: 16.06.2017

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 Sub-
stance/Mixture : Herbicide

1.3 Details of the supplier of the safety data sheet

Company : Syngenta UK Limited
Jealott's Hill International Research Centre
Bracknell, Berkshire RG42 6EY
United Kingdom

Telephone : +44 (0) 1223 883400

Telefax : -

E-mail address of person
responsible for the SDS : MSDSenquiries.UK@syngenta.com

1.4 Emergency telephone number

Emergency telephone num-
ber : +44 1484 538444

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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Hazard pictograms :



Hazard statements : H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : P102 Keep out of reach of children.
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 clean containers which can be disposed of as non-hazardous waste.

Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

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.

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
D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1 500-220-1	Eye Dam. 1; H318	>= 3 - < 10

For explanation of abbreviations see section 16.

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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
or
Water spray
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : 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.

Hazardous combustion products : Carbon oxides
Nitrogen oxides (NOx)
Oxides of phosphorus
Sulphur oxides

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.
Avoid contact with skin and eyes.

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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.

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

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL)

Substance name	End Use	Exposure routes	Potential health effects	Value
D-Glucopyranose, oligomeric, decyl octyl glycosides	Workers	Dermal	Long-term systemic effects	595000 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	420 mg/m3
	Consumers	Dermal	Long-term systemic effects	357000 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	124 mg/m3
	Consumers	Ingestion	Long-term systemic effects	35.7 mg/kg bw/day
Ammonium sulphate	Workers	Dermal	Long-term systemic effects	42.67 mg/kg
	Workers	Inhalation	Long-term systemic effects	11.17 mg/m3
	Consumers	Oral	Long-term systemic effects	6.4 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1.67 mg/m3
	Consumers	Dermal	Long-term systemic effects	12.8 mg/kg

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
D-Glucopyranose, oligomeric, decyl octyl glycosides	Fresh water	0.176 mg/l
	Marine water	0.0176 mg/l
	Fresh water sediment	1.516 mg/kg dry weight (d.w.)

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	Marine sediment	0.152 mg/kg dry weight (d.w.)
	Soil	0.654 mg/kg dry weight (d.w.)
	Sewage treatment plant	560 mg/l
	Secondary poisoning	111.11 mg/kg
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/l
	Soil	62.6 mg/l

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/face 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.

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

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Protective measures : limit they must use appropriate certified respirators.
: 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
Form	: liquid
Colour	: light brown to dark brown
Odour	: sweetish, weak
Odour Threshold	: No data available
Melting point/freezing point	: No data available
Initial boiling point and 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	: No data available
pH	: 6.7 Concentration: 100 %w/v
Viscosity	
Viscosity, dynamic	: 71 mPa,s (20 °C) 50 mPa,s (40 °C)
Viscosity, kinematic	: No data available
Solubility(ies)	

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Water solubility : No data available

Solubility in other solvents : No data available

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

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

No hazardous decomposition products are known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure :

- Ingestion
- Inhalation
- Skin contact
- Eye contact

Acute toxicity

Based on available data, the classification criteria are not met.

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

Components:

glyphosate-diammonium:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg The value is given in analogy to the following substances: glyphosate (ISO)
Acute inhalation toxicity	:	LC50 (Rat): > 4.98 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity The value is given in analogy to the following substances: glyphosate (ISO)
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg The value is given in analogy to the following substances: glyphosate (ISO)

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Product:

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

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Components:

glyphosate-diammonium:

Species : Rabbit
Result : No skin irritation
The value is given in analogy to the following substances: glyphosate (ISO)

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Product:

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

Components:

glyphosate-diammonium:

Species : Rabbit
Result : No eye irritation
The value is given in analogy to the following substances: glyphosate (ISO)

D-Glucopyranose, oligomeric, decyl octyl glycosides:

Species : Rabbit
Result : Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Test Type : Buehler Test
Species : Guinea pig
Result : Does not cause skin sensitisation.
Remarks : Based on data from similar materials

Components:

glyphosate-diammonium:

Species : Guinea pig
Result : Does not cause skin sensitisation.
The value is given in analogy to the following substances: glyphosate (ISO)

Germ cell mutagenicity

Not classified due to lack of data.

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Components:

glyphosate-diammonium:

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.
The value is given in analogy to the following substances:
glyphosate (ISO)

Carcinogenicity

Not classified due to lack of data.

Components:

glyphosate-diammonium:

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.
The value is given in analogy to the following substances:
glyphosate (ISO)

Reproductive toxicity

Not classified due to lack of data.

Components:

glyphosate-diammonium:

Reproductive toxicity - Assessment : No toxicity to reproduction
The value is given in analogy to the following substances:
glyphosate (ISO)

No effects on or via lactation

STOT - single exposure

Not classified due to lack of data.

Components:

glyphosate-diammonium:

Remarks : No data available

STOT - repeated exposure

Not classified due to lack of data.

Components:

glyphosate-diammonium:

Assessment : The substance or mixture is not classified as specific target
organ toxicant, repeated exposure.
The value is given in analogy to the following substances: glyphosate (ISO)

Aspiration toxicity

Not classified due to lack of data.

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Components:

glyphosate-diammonium:

No aspiration toxicity classification

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: 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: >= 9.63 mg/l Exposure time: 80 d Species: Oncorhynchus mykiss (rainbow trout) The value is given in analogy to the following substances: glyphosate (ISO)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 12.5 mg/l Exposure time: 21 d Species: Daphnia (water flea) The value is given in analogy to the following substances: glyphosate (ISO)

D-Glucopyranose, oligomeric, decyl octyl glycosides:

Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 560 mg/l
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12.2 Persistence and degradability

Components:

glyphosate-diammonium:

Biodegradability	:	Result: Not readily biodegradable.
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The value is given in analogy to the following substances:
glyphosate (ISO)

Stability in water : Degradation half life: 302 d
Remarks: Persistent in water.
Based on data from similar materials

12.3 Bioaccumulative potential

Components:

glyphosate-diammonium:

Bioaccumulation : Remarks: Does not bioaccumulate.
The value is given in analogy to the following substances:
glyphosate (ISO)

12.4 Mobility in soil

Components:

glyphosate-diammonium:

Distribution among environmental compartments : Remarks: immobile
Based on data from similar materials

Stability in soil : Dissipation time: 1.4 - 19 d
Percentage dissipation: 50 % (DT50)
Remarks: Product is not persistent., Based on data from similar materials

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 : Not persistent, bioaccumulative, and toxic (PBT).
Not very persistent and very bioaccumulative (vPvB).
The value is given in analogy to the following substances:
glyphosate (ISO)

12.6 Other adverse effects

Product:

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f) at levels of 0.1% or higher.

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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. |

SECTION 14: Transport information

14.1 UN number

- | | |
|------|-------------------------------------|
| ADR | : Not regulated as a dangerous good |
| RID | : Not regulated as a dangerous good |
| IMDG | : Not regulated as a dangerous good |
| IATA | : Not regulated as a dangerous good |

14.2 UN proper shipping name

- | | |
|------|-------------------------------------|
| ADR | : Not regulated as a dangerous good |
| RID | : Not regulated as a dangerous good |
| IMDG | : Not regulated as a dangerous good |
| IATA | : Not regulated as a dangerous good |

14.3 Transport hazard class(es)

- | | |
|------|-------------------------------------|
| ADR | : Not regulated as a dangerous good |
| RID | : Not regulated as a dangerous good |
| IMDG | : Not regulated as a dangerous good |
| IATA | : Not regulated as a dangerous good |

14.4 Packing group

- | | |
|------------------|-------------------------------------|
| ADR | : Not regulated as a dangerous good |
| RID | : Not regulated as a dangerous good |
| IMDG | : Not regulated as a dangerous good |
| IATA (Cargo) | : Not regulated as a dangerous good |
| IATA (Passenger) | : Not regulated as a dangerous good |

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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 regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the following entries should be considered: Number on list 3
		Number on list 65: Ammonium sulphate
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EU) No 2024/590 on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	:	Not applicable
Control of Major Accident Hazards Regulations 2015 (COMAH)	E2	ENVIRONMENTAL HAZARDS
Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control) Not applicable

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

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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 - Agreement concerning the International Carriage of Dangerous 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 Harmonised 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; 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 - Organisation 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; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; 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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SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



TOUCHDOWN QUATTRO

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