

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

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

1.1 Product identifier

Trade name : TOUCHDOWN FORTE HITECH

Design code : A13013M

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

Use of the Sub- : Herbicide

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : Syngenta SA (Pty) Ltd

P.O. Box 1044, No. 4 Krokodildrift Avenue

Brits 0250 South Africa

Telephone : +27 (0)12 2506 300

Telefax : -

E-mail address of person

responsible for the SDS

: sds.ame@syngenta.com

1.4 Emergency telephone number

Emergency telephone num- : +27 (0) 82 446 8946 (Griffon)

ber

### **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.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word : Warning

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

H333 May be harmful if inhaled.

Precautionary statements : P102 Keep out of reach of children.



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**Prevention:** 

P273 Avoid release to the environment.

Response:

P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### 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.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
glyphosate-potassium	39600-42-5	Aquatic Chronic 2; H411	>= 30 - < 50
	015-184-00-8		
potassium hydroxide	1310-58-3 215-181-3 019-002-00-8	Acute Tox. 4; H302 Skin Corr. 1A; H314	>= 10 - < 20
	01-2119487136-33- xxxx	Eye Dam. 1; H318	
D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1 500-220-1 01-2119488530-36- xxxx	Eye Dam. 1; H318	>= 10 - < 20
amines, coco alkyl, ethoxylated	61791-14-8 500-152-2	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 ——— M-Factor (Acute aquatic toxicity): 1	>= 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 respira-

tion

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 car-

bon 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 prod-

ucts 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 ap-

paratus.

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 ab-

sorbent 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. When using do not eat, drink or smoke. For personal protection see section 8.



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#### 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 stor-

age 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) : Refer to protective measures listed in sections 7 and 8.

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**

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
potassium hydrox-	1310-58-3	OEL- RL STEL/C	4 mg/m3	ZA OEL
ide				
	Further information: Occupational Exposure Limits - Restricted Limits For			
	Hazardous Chemical Agents			

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

	• •	-	• •	
Substance name	End Use	Exposure routes	Potential health effects	Value
potassium hydroxide	Workers	Inhalation	Long-term local ef- fects	1 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	1 mg/m3
D-Glucopyranose, oligomeric, decyl octyl glycosides	Workers	Dermal	Chronic effects	595000 mg/kg
	Workers	Inhalation	Chronic effects	420 mg/m3
	Consumers	Dermal	Chronic effects	357000 mg/kg
	Consumers	Inhalation	Chronic effects	124 mg/m3
	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
D-Glucopyranose, oligomeric,	Fresh water	0,1 mg/l
decyl octyl glycosides		
	Marine water	0,01 mg/l
	Fresh water sediment	0,487 mg/kg
	Marine sediment	0,048 mg/kg
	Soil	0,654 mg/kg



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#### 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 Hand protection

No special protective equipment required.

Remarks : No special protective equipment required. Skin and body protection : No special protective equipment required.

Select skin and body protection based on the physical job

requirements.

Respiratory protection : When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Suitable respiratory equipment: Respirator with a half face mask

The filter class for the respirator must be suitable for the max-

imum expected contaminant concentration

(gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-

contained breathing apparatus must be used.

Protective measures : The use of technical measures should always have priority

over the use of personal protective equipment.

When selecting personal protective equipment, seek appro-

priate professional advice.

#### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : light brown to dark brown Odour : No data available

Odour Threshold : No data available

No data available

pH : 3-7

Concentration: 1 % w/v

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Method: Seta closed cup



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does not flash

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower :

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : 1,363 g/cm3 (20 °C)

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : 470 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 63,0 mPa.s (40 °C)

126 mPa.s (20 °C)

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Particle size : No data available

#### **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.



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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 toxicological effects

Information on likely routes of:

exposure

Ingestion Inhalation Skin contact Eye contact

**Acute toxicity** 

**Product:** 

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,08 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The component/mixture is minimally toxic after

short term inhalation.

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

**Components:** 

glyphosate-potassium:

Acute oral toxicity : LD50 (Rat, female): Calculated 2.111 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): Calculated > 4,95 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat, male and female): Calculated > 2.400 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

potassium hydroxide:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after

single ingestion.

### **SAFETY DATA SHEET**



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amines, coco alkyl, ethoxylated:

Acute oral toxicity : LD50 (Rat): 300,1 - 2.000 mg/kg

Remarks: Information given is based on data obtained from

similar substances.

Skin corrosion/irritation

**Product:** 

Species : Rabbit

Result : No skin irritation

**Components:** 

glyphosate-potassium:

Species : Rabbit

Result : No skin irritation

potassium hydroxide:

Result : Corrosive after 3 minutes or less of exposure

amines, coco alkyl, ethoxylated:

Species : Rabbit

Result : Irritating to skin.

Serious eye damage/eye irritation

**Product:** 

Species : Rabbit

Result : No eye irritation

**Components:** 

glyphosate-potassium:

Species : Rabbit

Result : No eye irritation

D-Glucopyranose, oligomeric, decyl octyl glycosides:

Species : Rabbit

Result : Irreversible effects on the eye

amines, coco alkyl, ethoxylated:

Species : Rabbit

Result : Risk of serious damage to eyes.



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Respiratory or skin sensitisation

**Product:** 

**Species** Guinea pig

Result Did not cause sensitisation on laboratory animals.

**Components:** 

glyphosate-potassium:

**Species** Guinea pig

Result Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

**Components:** 

glyphosate-potassium:

sessment

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

Carcinogenicity

**Components:** 

glyphosate-potassium:

Carcinogenicity - Assess-

ment

: No evidence of carcinogenicity in animal studies.

Reproductive toxicity

**Components:** 

glyphosate-potassium:

Reproductive toxicity - As-

sessment

: No toxicity to reproduction

STOT - repeated exposure

**Components:** 

glyphosate-potassium:

The substance or mixture is not classified as specific target Assessment

organ toxicant, repeated exposure.

**SECTION 12: Ecological information** 

12.1 Toxicity

**Product:** 

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l

Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 5,3 mg/l



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aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)):

4,33 mg/l

Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)):

End point: Growth rate Exposure time: 72 h

**Components:** 

glyphosate-potassium:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): Calculated >

1.511 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): Calculated > 1.227 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)):

Calculated 66 mg/l Exposure time: 72 h

D-Glucopyranose, oligomeric, decyl octyl glycosides:

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

amines, coco alkyl, ethoxylated:

Toxicity to fish LC50 (Fish): 0,48 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0,37 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

IC50 (algae): 0,1 - 1 mg/l

Exposure time: 72 h

Remarks: Information given is based on data obtained from

similar substances.

M-Factor (Acute aquatic tox-

icity)

1

Toxicity to microorganisms EC50 (Pseudomonas putida): 215 mg/l

12.2 Persistence and degradability

**Components:** 

amines, coco alkyl, ethoxylated:

Biodegradability Result: Readily biodegradable.



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# 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 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.

#### 12.6 Other adverse effects

#### **Product:**

Endocrine disrupting poten-

tial

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 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Do not dispose of waste into sewer.

Where possible recycling is preferred to disposal or incinera-

tion.

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 han-

dling site for recycling or disposal. Do not re-use empty containers.

#### **SECTION 14: Transport information**

#### 14.1 UN number

UNRTDG : Not regulated as a dangerous goodIMDG : Not regulated as a dangerous goodIATA : Not regulated as a dangerous good



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#### 14.2 UN proper shipping name

UNRTDG : Not regulated as a dangerous goodIMDG : Not regulated as a dangerous goodIATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

UNRTDG : Not regulated as a dangerous goodIMDG : Not regulated as a dangerous goodIATA : Not regulated as a dangerous good

14.4 Packing group

UNRTDG : 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

#### 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 regu-

lations.

### 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

#### Other regulations:

None known.

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

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**

H302 : Harmful if swallowed.

H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H318 : Causes serious eye damage. H400 : Very toxic to aquatic life.



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H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage Skin Corr. : Skin corrosion Skin Irrit. : Skin irritation

ZA OEL : South Africa. The Regulations for Hazardous Chemical

Agents, Occupational Exposure Limits

ZA OEL / OEL- RL STEL/C : Occupational Exposure Limit Restricted limit - Short term oc-

cupational exposure limits / ceiling limits

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

Classification procedure:

Aquatic Chronic 2 H411 Calculation method



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