

## SAFETY DATA SHEET

### according to Regulation (EC) No 1907/2006 (REACH)

## TS Fortify

**Creation date:** 25/06/ 2021  
**Revision:** 0

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

#### 1.1 Product identifier:

**Product name** TS Fortify

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

**Identified uses** Horticultural & agricultural plants and crops

#### 1.3 Details of the supplier of the Safety Data Sheet

<b>Company</b>	SouthWest Agronomy Ltd
<b>Address</b>	Unit 5a Pitts Cleave Industrial Estate Tavistock Devon PL19 0NT
<b>Telephone</b>	07900 692052
<b>Email</b>	enquiries@swagronomy.com

#### 1.4 Emergency telephone number

**Emergency telephone** 07900 692052

### SECTION 2: Hazard identification

#### 2.1 Classification of the substance or mixture

**2.1.1 Classification - 1999/45/EC** Xn; R22 Xi; R36/38  
 Symbols: Xn: Harmful

**Main hazards** Harmful if swallowed. Irritating to eyes and skin

**2.1.2 EC 1272/2008** Acute Tox. 4: H302; Skin Irritation 2: H315; Eye Irritation 1: H318

#### 2.2 Label elements

##### Hazard pictograms



##### Signal word

Warning

##### Hazard statement

Acute Tox. 4: H302 - Harmful if swallowed  
 Skin Irritation 2: H315 - Causes skin irritation  
 Eye Irritation 2: H319 - Causes serious eye damage

##### Precautionary statement: Prevention

P264 - Wash thoroughly after handling  
 P270 - Do not eat, drink, or smoke when using this product  
 P280 - Wear protective gloves, clothing, eye, and face protection

##### Precautionary statement: Response

P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ /if you feel unwell.  
 P302+P352 - IF ON SKIN: Wash with plenty of water/ .  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P321 - Specific treatment (see on this label).  
 P330 - Rinse mouth.

##### Precautionary statement: Disposal

P501 - Dispose of contents/container according to local regulations

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

67/548/EEC / 1999/45/EC EC 1272/2008

Chemical name	Index no.	CAS no.	EC No.	REACH Registration No.	Conc. (%w/w)	Classification	M-factor
Nitric acid ammonium calcium salt		15245-12-2	239-289-5	01-2119493947-16	25-40%	Eye Dam. 1 H318 Acute Tox. 4 H302	
Potassium nitrate		7757-79-1	231-818-8	01-2119488224-35	< 20%	Ox. Sol. 3, H272	

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Inhalation	Irritating to respiratory system. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention.
Eye contact	Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Call for medical help immediately

### 4.2. Most important symptoms and effects, both acute and delayed

Inhalation	None under normal processing
Eye contact	None under normal processing
Skin contact	None under normal processing
Ingestion	None under normal processing

### 4.3. Indication of any immediate medical attention and special treatment needed

Inhalation	None under normal processing
Eye contact	None under normal processing
Skin contact	None under normal processing
Ingestion	None under normal processing

## SECTION 5: Fire fighting measures

### 5.1. Extinguishing media

	Foam, Carbon dioxide (CO <sub>2</sub> ), Dry Powder, Sand
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### 5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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### 5.3. Advice for firefighters

	Wear fully protective suit Wear suitable respiratory equipment Do not inhale explosion or combustion gases
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Wear suitable protective equipment.
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### 6.2. Environmental precautions

	Dilute with copious water Do not allow concentrated product to enter drains Prevent further spillage if safe.
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### 6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Potassium nitrate

<b>DNEL/DMEL (workers)</b>	Long-term: systemic effects, dermal - 20.8 mg/kg bodyweight/day Long-term: systemic effects, inhalation - 36.7 mg/m <sup>3</sup>
<b>DNEL/DMEL (general population)</b>	Acute - systemic effects, oral - 12.5 mg/kg bodyweight/day Long-term: systemic effects, dermal - 12.5 mg/kg bodyweight/day Long-term: systemic effects, inhalation - 10.9 mg/m <sup>3</sup>
<b>PNEC aqua (fresh water)</b>	0.45 mg/L
<b>PNEC aqua (marine water)</b>	0.045 mg/L
<b>PNEC (intermittent, freshwater)</b>	4.5 mg/L

### 8.2. Exposure controls, considered for handling concentrate

<b>8.2.1. Appropriate engineering controls</b>	Ensure adequate ventilation of the working area.
<b>8.2.2. Individual protection measures</b>	Approved safety goggles.
<b>Eye / face protection</b>	Wear chemical protective clothing.
<b>Skin protection - Hand protection</b>	Chemical resistant gloves (PVC).
<b>Respiratory protection</b>	Wear: Suitable respiratory equipment.

## SECTION 9: Physical and chemical properties

### 9.1 Physical & chemical properties

<b>Physical state</b>	Liquid
<b>Form</b>	Liquid
<b>Colour</b>	Dark brown
<b>Odour</b>	Faint sweet
<b>Odour threshold</b>	No data available
<b>pH</b>	6.0 - 7.0
<b>Freezing point</b>	No information available
<b>Boiling point</b>	No information available
<b>Flash point</b>	Mixture not classified as Flammable
<b>Evaporation rate</b>	Not determined
<b>Flammability</b>	Not applicable
<b>Upper explosive limit</b>	Product does not present an explosion hazard
<b>Lower explosive limit</b>	Product does not present an explosion hazard
<b>Vapour pressure</b>	No information available
<b>Vapour density</b>	No information available
<b>Specific gravity</b>	1.15 g/mL
<b>Solubility</b>	Fully miscible
<b>Partition n-octanol/water</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Thermal decomposition</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidizing properties</b>	No data available

## SECTION 10: Stability and reactivity

<b>10.2 Chemical stability</b>	
	Stable under normal conditions
<b>10.3 Possibility of hazardous reaction</b>	
	No dangerous reactions known
<b>10.4 Conditions to avoid</b>	
	Extremes of temperature
<b>10.5 Incompatible materials</b>	
	Strong acids
<b>10.6 Hazardous decomposition products</b>	
	Nitrogen oxides (NO <sub>x</sub> ) Sulphur oxides (SO <sub>x</sub> ) Possible irritant fumes

## SECTION 11: Toxicological information

<b>11.1 Information on toxicological effects</b>	
<b>Acute toxicity</b>	Classification criteria not met
<b>Skin corrosion/irritation</b>	May cause irritation to skin. May cause irritation to eyes.
<b>Serious eye damage/irritation</b>	Causes serious eye irritation
<b>Respiratory or skin sensitisation</b>	May cause sensitisation by inhalation and skin contact.
<b>Germ cell mutagenicity</b>	No data is available on this product.
<b>Carcinogenicity</b>	Classification criteria not met
<b>11.1.2 Mixtures</b>	
	No data is available on this product.
<b>11.1.3 Hazard information</b>	
	Irritating to eyes and skin
<b>11.1.4 Toxicological information</b>	
<b>Potassium nitrate</b>	<b>Oral Rat LD50:</b> 3750 mg/kg <b>Dermal Rat LD50:</b> > 5,000 mg/kg

## SECTION 12: Ecological information

<b>12.1 Toxicity</b>	
<b>Mixture</b>	Do not allow to enter the environment uncontrolled
<b>Potassium nitrate</b>	General: Classification concerning the environment: not applicable Water: Mild water pollutant (surface water). Ground water pollutant. Maximum concentration in drinking water: 50 mg/L (nitrate) Not harmful to fish (LC50 (96h) > 1000 mg/L) Slightly harmful to invertebrates (Daphnia) (EC50 (48h): 100-1000 mg/L) May cause eutrophication. Slightly harmful to plankton (EC50: 100-1000 mg/L)
<b>Nitric acid ammonium calcium salt</b>	Carassius auratus (LC50 48h) 447 mg/L
<b>12.2 Persistence and degradability</b>	
	Information not available
<b>12.3 Bioaccumulative potential</b>	
	Information not available
<b>12.4 Mobility in soil</b>	
	Information not available
<b>12.5 Results of PBT and vPvB</b>	
	Not classified
<b>12.6 Other adverse effects</b>	
	Information not available

## SECTION 13: Disposal considerations

<b>General information</b>	
	Dispose of in compliance with local and national regulations

<b>Disposal methods</b>	
	Wash thoroughly with clean water
<b>Disposal of packaging</b>	
	Empty containers can be sent for disposal or recycling. Contact your supplier for how to reuse.

## SECTION 14: Transport information

### In accordance with ADR/RID/ADNR/IMDG/ICAO/IATA

	The product is not classified as dangerous for transport
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## SECTION 15: Regulatory information

### 15.1 Safety legislation specific for the substance or mixture

This substance is classified and labelled in accordance with regulation 1999/45EC, 1272/2008, the statutory instrument No. 716 2009 Chemicals (Hazard Information and Packaging ) regulations and the EC fertiliser Regulations 2003, 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, 93/105/EC and 2000/21/EC, including amendments.

<b>15.1.1 EU Regulations</b>	No restrictions according to Annex XVII of REACH. Does not contain REACH candidate substances.
<b>15.1.2 National regulations</b>	No information available
<b>15.2 Chemical safety assessment</b>	No information available

## SECTION 16: Other information

### Other information

<b>Text of Hazard phrases in Section 3</b>	Full text of H-Statements referred to under sections 2 and 3 H360 - May damage fertility or the unborn child H302 - Harmful if swallowed H318 - Causes serious eye damage H319 - Causes serious eye irritation H272 - May intensify fire; oxidizer
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### Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage, and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This 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 other process.