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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier TREE FERN & PALM FEED

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Fertiliser

1.3 Details of the Supplier of the Substance or Mixture

Vitax Limited, Owen Street, Coalville LE67 3DE Tel: 01530 510060 Email: info@vitax.co.uk

1.4 Emergency Contact: Tel: 01530 510060 (Office Hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFICATION according to Directive EC 1272/2008 Classification, Labelling and Packaging

This mixture is not classified as dangerous to humans or the environment

Primary Hazard None

2.2 Label ElementsThere are no statutory labelling requirements under Directive 1999/45/EC,

regulation 1272/2008 and regulation 453/2012.

2.3 Other Hazards Mixture not classed as PBT or vPvB

3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Product Code:
- 3.2 Mixtures
- 3.3 Hazardous components

Chemical	CAS-No./	Annex Index or	Symbol(s)	R-phrase(s)	Concentrations
Name	EINECS-No.	REACH number			[%]
POTASSIUM	7757-79-1/	REACh no.:	According to	According to	1 - 5%
NITRATE	231-818-8	01-2119488224-25	1272/2008:	1272/2008:	
			GHS07	Oxid. Solid 3; H272	
CITRIC ACID MONO- HYDRATE	201-069-1 77- 92-9	REACH registered number(s): 01- 2119457026-42		Eye Irrit. 2: H319	1-10%
COPPER	231-847-6			Acute Tox.4: H302;	<1%
SULPHATE	7758-98-7			Eye Irrit. 2: H319;	
				Skin Irrit. 2: H315;	
				Aquatic Chronic 1:	
				H410; Aquatic	
				Acute 1: H400	

The full hazard information for individual components if not displayed in section 2 or 3 are displayed in Section 16.

4.0. FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 Inhalation Remove from source of exposure to fresh air; seek medical attention.

4.1.2 Skin & Eye exposure Skin: Drench immediately with water. Remove any contaminated clothing and

launder before re-use. Seek medical attention if symptoms persist or develop. Eyes: Rinse cautiously for several minutes, Remove contact lenses, if present and easy to do, rinse with clean water for 15 minutes. Seek medical attention if

symptoms arise or persist.

4.1.3 Ingestion Do not induce vomiting. Wash out mouth with water and give water to drink.

Obtain medical attention if symptoms persist or develop.

4.2 Most important symptoms and effects, both acute and delayed

None known.

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

Information not available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing mediaUse foam, carbon dioxide, dry powder, sand. The mixture is not classified as

flammable as such extinguishing media should be chosen as appropriate for

surrounding materials.

5.2 Special Hazards arising from the substance or mixture

Possible irritant fumes arising from combustion

5.3 Advice for fire-fighters Cool down containers/equipment exposed to heat with a water spray. Contain

spread of extinguishing fluids (these fluids may be hazardous for the



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environment). Wear complete protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

The following precautions are considered to be good practice when using any chemicals irrespective of their classification unless otherwise specified. Use personal protective equipment -appropriate coveralls and gloves -eye/face

protection -appropriate respirator. Avoid contact with skin and eyes

6.2 Environmental Precautions Do not allow to enter storm drains or water courses. If this product enters a water

course or a sewer (including via contaminated soil & vegetation) contact local

water authority and inform the Environment Agency

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material such as sand and transfer to suitable container.

Contact specialist waste disposal contractor.

6.4 Reference to other sections No reference necessary

7. HANDLING AND STORAGE

7.1 Precaution for safe handling Avoid contact with skin and eyes. Wash hands thoroughly after handling. Do not

eat, drink or smoke when using this product. Remove contaminated clothing and

protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool dry atmosphere, in original labelled containers. Refer to

manufacturer for maximum safe stacking height. Keep away from heat sources,

combustible materials.

7.3 Specific end use(s) No specific information available

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Potassium nitrate:

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal 20.8 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 36.7 mg/m³

DNEL/DMEL (General population)

Acute - systemic effects, oral 12.5 mg/kg bodyweight

Long-term - systemic effects, inhalation 10.9 mg/m^3

Long-term - systemic effects, dermal 12.5 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater) 0.45 mg/lPNEC aqua (marine water) 0.045 mg/lPNEC aqua (intermittent, freshwater) 4.5 mg/l

PNEC (STP)

PNEC sewage treatment plant 18 mg/l

CITRIC ACID MONOHYDRATE

0.44mg/l PNEC Fresh water 0.044 mg/lPNEC Marine water PNEC Fresh water sediments 3.46mg/l34.6mg/l **PNEC Marine sediments** PNEC Microorganisms in sewage treatment > 1000 mg/lPNEC Soil (agricultural) 33.1mg/kg

8.2 Exposure controls

Goggles – Eye Protection: goggles/face shield to BS EN166.

Gloves – BS EN374 – chemical protection.

Respirators – BS approved protection device with P3 filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Straw coloured liquid Appearance; Odour; Information not specified Odour threshold; Information not specified

Melting point/freezing; Information not specified

Initial boiling point and boiling range; Information not specified



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Flash point; Information not specified Evaporation rate; Information not specified Flammability (solid, gas); Information not specified

Upper /lower flammability or explosive limits; Information not specified

Vapour Pressure; Information not specified Vapour density; Information not specified

Specific gravity; 1.1

Solubility (ies); soluble in water

Partition coefficient: n-octanol/water; Information not specified

Auto ignition temperature: Information not specified Decomposition temperature: Information not specified

9.2 Other Information No other relevant information available

10. STABILITY AND REACTIVITY

10.1 Reactivity Unknown

10.2 Chemical StabilityStable under normal conditions10.3 Possibility of hazardous reactionsInformation not available10.4 Conditions to avoidExtremes of temperature

10.5 Incompatible materials None known

10.6 Hazardous decomposition products Possible irritant fumes

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects The mixture has not been assessed for toxicological effects, the mixture

classification is given in section 2 based on individual component contents.

Individual component hazards are given in section 3

Toxicological information on hazardous ingredients:

Potassium nitrate

Acute toxicity: Not classified (Based on available data, the classification criteria are not met)

LD50 oral rat 3750 mg/kg OECD Guideline 405

LD50 dermal rat > 5000 mg/kg bw/day OECD Guideline 402 LC50 inhalation rat (mg/l) > 0,527 mg/l/4h OECD Guideline 403

ATE (oral) 3750 mg/kg

Skin corrosion/irritation: Not classified (Based on available data, the classification criteria are not met)

pH: 6 - 9 (5 %)

Explanation skin corrosion/irritation: OECD 402: Data obtained by analogy conclusion

Serious eye damage/irritation: Not classified (Based on available data, the classification criteria are not met)

pH: 6 - 9 (5 %)

Explanation serious eye damage/irritation: OECD Guideline 437/405/EU B.5.

Respiratory or skin sensitisation: Not classified (Based on available data, the classification criteria are not met)

Explanation respiratory or skin sensitisation: OECD Guideline 429/EU B.42

Germ cell mutagenicity:

Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity:

Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity:

Not classified (Based on available data, the classification criteria are not met)

Explanation reproductive toxicity

NOAEL: 1,500 mg/kg/day (general toxicity / reproduction/developmental toxicity)

Specific target organ toxicity (single exposure): Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity (repeated exposure): Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard:

Not classified (Based on available data, the classification criteria are not met)

Explanation aspiration hazard: Data lacking

Potential Adverse human health effects and symptoms:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity Not classified as harmful to the environment.

Potassium nitrate:

Ecology - general: Classification concerning the environment: not applicable. Ecology - water: Mild water pollutant (surface water). Ground water pollutant.

Maximum concentration in drinking water: 50 mg/l (nitrate) (Directive 98/83/EC).

Not harmful to fishes (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).

12.2 Persistence and degradability Information not available



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12.3 Bioaccumulative potential 12.4 Mobility in soilInformation not available
Information not available

12.5 Results of PBT and vPvB Not classified

12.6 Other adverse effects Information not available

13.DISPOSAL CONSIDERATIONS

13.1 Waste Treatment MethodsUse only licensed waste disposal companies. Do not re-use empty containers for

any purpose.

14. TRANSPORT INFORMATION

14.1 UN number:Product is unclassified for transport14.2 UN proper shipping name:Product is unclassified for transport14.3 Transport hazard:Product is unclassified for transport14.4 Packing group:Product is unclassified for transport14.5 Environmental hazards:Product is unclassified for transport.

14.6 Special precautions for user: Not specified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Applicable for Maritime bulk transport only. Check with carrier.

15. REGULATORY INFORMATION

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

This substance is classified and labelled in accordance with regulation 1999/45/EC, 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, 93/67/EEC,

93/105/EC and 2000/21/EC, including amendments. Regulation (EC)

15.2 Chemical Safety Assessment

CSA not undertaken for this substance

16. OTHER INFORMATION

Other Hazard Information assigned to individual ingredients, but not carried to final classification:

H272: May intensify fire; oxidiser.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

H410: Very toxic to aquatic life with long lasting effects.

SDS information:

This safety data sheet is compiled using data submitted for raw materials and practical experience. This Safety Data Sheet is prepared in compliance with Directive 1999/45/EC, 1272/2008 and Annex I of the REACH regulation

453/2010.

THE INFORMATION GIVEN HEREIN IS, TO THE BEST OF OUR

KNOWLEDGE, CORRECT AND IS PRESENTED IN GOOD FAITH BUT NO

WARRANTY, EXPRESSED OR IMPLIED IS GIVEN.