Safety Data Sheet

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Last Revision Date 10-Dec-2021 Version: 1

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

1.1. Product identifier

Product Name Ficote Total 17-9-10+2MgO+TE; 12-14M

Product Code 7619-225HA

Synonyms: Ficote Total 17-3.9-8.3+1.2Mg+TE

Pure substance/mixture Mixture

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

Recommended Use Fertilizer (PC12). Restricted to professional users.

Uses Advised Against Consumer use (SU21)

Reason why uses advised against Use advised against in Chemical Safety Assessment per REACH Annex I point 7 2.3

1.3. Details of the supplier of the safety data sheet

Everris International B.V.Nijverheidsweg 1-5; 6422 PD Heerlen (NL); Tel: +31 (0)45-5609100; Fax: +31 (0)45-5609190

For further information, please contact: INFO-MSDS@EVERRIS.COM

Non-Emergency Telephone Number +31 (0) 418655700

1.4. Emergency telephone number

IN CASE OF AN EMERGENCY CALL: +44 1235 239 670 (24/7)

Europe	112
Austria	+43 1 406 43 43
Belgium	070 245 245
Denmark	+45 8212 1212
Finland	0800 147 111
France	+ 33 (0)1 45 42 59
Ireland	01 809 2566
Netherlands	+31 88 75 585 61
Norway	+45 735 80500
Poland	+48 42 2538 400
Portugal	+351 800 250 250
Spain	+34 91 562 04 20
Sweden	112
Switzerland	Tox Info Switzerland 145 (24h)
United Kingdom	111

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

- [Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements

Hazard statements

H412 - Harmful to aquatic life with long lasting effects

2.3. Other hazards

No information available.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No	Weight-%	Classification	Specific	REACH	M-Factor	M-Factor
		Ü	according to Regulation (EC) No. 1272/2008 [CLP]	concentration limit (SCL)	registration number		(long-term)
Ammonium nitrate; NH ₄ NO ₃ (6484-52-2)	229-347-8	40 - 65%	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	Eye Irrit. 2 :: C>=80%	01-2119490981-27	-	-
Diammonium phosphate; (NH ₄) ₂ HPO ₄ (7783-28-0)	231-987-8	1 - 5%	-	-	01-2119490974-22		-
Calcium sulfate anhydrous; CaSO ₄ (7778-18-9)	231-900-3	1 - 5%	-	-	01-2119444918-26		-
Iron sulphate; FeSO ₄ +7H ₂ O (7782-63-0)	231-753-5	0.1 - 1%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	Skin Irrit. 2 :: C>=25%	01-2119513203-57	-	-
Magnesium oxide; MgO (1309-48-4)	215-171-9	0.1 - 1%	-	-	Exempt	-	-
Iron-EDTA-13; Fe-EDTA (15708-41-5)	239-802-2	0.1 - 1%	-	-	01-2119496228-27	-	-
Wax (112945-52-5)	601-216-3	0.1 - 1%	-	-	01-2119488076-30	-	-
Calcium fluoride; CaF ₂	232-188-7	0.1 - 1%	-	-	Exempt	-	-
Copper sulphate anhydrous; CuSO ₄ (7758-98-7)	231-847-6	0.1 - 1%	Skin irrit. 2 (H319) Eye irrit. 2 (H315) Acute Tox. 4 (H302) Aquatic Chronic 1 (H410)	-	01-2119520566-40	10	10
Manganese sulphate; MnSO ₄ +1H ₂ O (7785-87-7)	232-089-9	< 0.1%	STOT RE 2 (H373) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	-	01-2119456624-35	-	-
Sodium tetraborate pentahydrate (12179-04-3)	601-808-1	< 0.1%	Eye Dam. 2 (H319) Carc.1B (H360)	-	Not available	-	-
Zinc sulphate+1H2O; ZnSO ₄ +1H ₂ O (7446-19-7)	231-793-3	< 0.1%	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	01-2119474684-27	1	1
Sodium molybdate; Na ₂ MoO ₄ (7631-95-0)	231-551-7	< 0.1%	-	-	01-2119489495-21	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from

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CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L
Ammonium nitrate; NH4NO3	2217	5000	88.8
Diammonium phosphate; (NH ₄) ₂ HPO ₄	2000	5000	No data available
Calcium sulfate anhydrous; CaSO ₄	3000	No data available	No data available
Magnesium oxide; MgO	3870 3990	No data available	No data available
Iron-EDTA-13; Fe-EDTA	5000	No data available	No data available
Wax	3160	No data available	No data available
Calcium fluoride; CaF ₂	4250	No data available	No data available
Copper sulphate anhydrous; CuSO ₄	300	1000	No data available
Manganese sulphate; MnSO ₄ +1H ₂ O	782	No data available	No data available
Sodium tetraborate pentahydrate	2403	No data available	No data available
Sodium molybdate; Na ₂ MoO ₄	4000	No data available	No data available

Chemical name	CAS No	SVHC candidates
Sodium tetraborate pentahydrate	12179-04-3	X

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). First aid measures should be executed by trained

personnel only.

Inhalation Remove to fresh air. In the case of inhalation of aerosol/mist consult a physician if

necessary. If not breathing, give artificial respiration. If symptoms persist, call a physician.

Dusty conditions are unlikely if product is used as intended. However, if prolonged

inhalation of dust occurs, remove casualty to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contactWash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

to an unconscious person. Do not induce vomiting without medical advice.

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

Symptoms None known.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

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surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

In case of fire, the product will smoulder even without the presence of external oxygen. In these conditions the product will show self sustaining decomposition. The best method to extinguish the fire is to cool the decomposition front with water Thermal decomposition can lead to release of irritating and toxic gases and vapors

Hazardous Combustion Products Carbon oxides. Phosphorus oxides. Ammonia. Nitrogen oxides (NOx).

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Wear protective gloves/protective clothing and eye/face

protection.

Other information Refer to protective measures listed in Sections 7 and 8.

basements or confined areas.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information. Do not flush into surface water or

sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal. Use up product

completely. Packaging material is industrial waste.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid

contact with eyes. Avoid generation of dust. In case of insufficient ventilation, wear suitable

respiratory equipment.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Keep away from

food, drink and animal feeding stuffs. When using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

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Storage Conditions KEEP OUT OF REACH OF CHILDREN AND PETS. Keep container tightly closed in a dry

and well-ventilated place. For quality reasons: Keep out of reach of direct sunlight, store

under dry conditions, partly used packaging should be closed well.

Packaging materials Keep in original container, tightly closed in a safe place.

7.3. Specific end use(s)

Specific use(s) Fertilizer.

Exposure scenario Mixture. Not required.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other Information

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Calcium sulfate	-	TWA: 5 mg/m ³	TWA: 10 mg/m ³	TWA: 10.0 mg/m ³	=
anhydrous; CaSO ₄		STEL 10 mg/m ³		-	
Iron sulphate;	-	-	TWA: 1 mg/m ³	TWA: 1.0 mg/m ³	TWA: 1 mg/m ³
FeSO ₄ +7H ₂ O				-	STEL: 2 mg/m ³
Magnesium oxide; MgO	-	STEL 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10.0 mg/m ³	TWA: 4 mg/m ³
		TWA: 5 mg/m ³			TWA: 10 mg/m ³
Iron-EDTA-13; Fe-EDTA	-	-	TWA: 1 mg/m ³	TWA: 1.0 mg/m ³	TWA: 1 mg/m ³
					STEL: 2 mg/m ³
Wax	-	TWA: 4 mg/m ³	-	-	-
Calcium fluoride; CaF ₂	TWA: 2.5 mg/m ³	-	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³
Copper sulphate	-	STEL 4 mg/m ³	-	TWA: 1.0 mg/m ³	-
anhydrous; CuSO ₄		TWA: 1 mg/m ³			
Manganese sulphate;	-	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³
MnSO ₄ +1H ₂ O		STEL 1.6 mg/m ³			TWA: 0.05 mg/m ³
Sodium tetraborate	-	-	TWA: 2 mg/m ³	TWA: 5.0 mg/m ³	TWA: 1 mg/m ³
pentahydrate			STEL: 6 mg/m ³		
Sodium molybdate;	-	TWA: 5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 5.0 mg/m ³	TWA: 5 mg/m ³
Na ₂ MoO ₄		STEL 10 mg/m ³		TWA: 10.0 mg/m ³	STEL: 10 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ammonium nitrate;	-	TWA: 10.0 mg/m ³	-	-	-
NH4NO3					
Iron sulphate;	_		TIMA 4 / 2		
FeSO ₄ +7H ₂ O			TWA: 1 mg/m ³	-	TWA: 1 mg/m ³
		-	,	-	TWA: 1 mg/m ³
Magnesium oxide; MgO	-	TWA: 5 mg/m ³	TWA: 1 mg/m ³ TWA: 6 mg/m ³	-	TWA: 1 mg/m ³
Magnesium oxide; MgO	-	TWA: 5 mg/m³ Ceiling: 10 mg/m³	TWA: 6 mg/m³	-	-
Magnesium oxide; MgO Iron-EDTA-13; Fe-EDTA	-	Ceiling: 10 mg/m ³	TWA: 6 mg/m ³ TWA: 1 mg/m ³	-	- TWA: 1 mg/m³
Magnesium oxide; MgO	- TWA: 2.5 mg/m ³	Ceiling: 10 mg/m³ - TWA: 2.5 mg/m³	TWA: 6 mg/m³	- - TWA: 2.5 mg/m ³	-
Magnesium oxide; MgO Iron-EDTA-13; Fe-EDTA Calcium fluoride; CaF ₂	- TWA: 2.5 mg/m ³	Ceiling: 10 mg/m ³	TWA: 6 mg/m ³ TWA: 1 mg/m ³	- TWA: 2.5 mg/m ³	- TWA: 1 mg/m ³ TWA: 2.5 mg/m ³
Magnesium oxide; MgO Iron-EDTA-13; Fe-EDTA Calcium fluoride; CaF ₂ Copper sulphate	- TWA: 2.5 mg/m ³	Ceiling: 10 mg/m³ - TWA: 2.5 mg/m³	TWA: 6 mg/m ³ TWA: 1 mg/m ³	- TWA: 2.5 mg/m ³ TWA: 1 mg/m ³	- TWA: 1 mg/m³
Magnesium oxide; MgO Iron-EDTA-13; Fe-EDTA Calcium fluoride; CaF2 Copper sulphate anhydrous; CuSO4	-	Ceiling: 10 mg/m³ - TWA: 2.5 mg/m³ Ceiling: 5 mg/m³ -	TWA: 6 mg/m³ TWA: 1 mg/m³ TWA: 2.5 mg/m³	- TWA: 2.5 mg/m ³ TWA: 1 mg/m ³ TWA: 0.2 mg/m ³	TWA: 1 mg/m ³ TWA: 2.5 mg/m ³ TWA: 0.02 mg/m ³
Magnesium oxide; MgO Iron-EDTA-13; Fe-EDTA Calcium fluoride; CaF ₂ Copper sulphate anhydrous; CuSO ₄ Manganese sulphate;	- TWA: 0.2 mg/m ³	Ceiling: 10 mg/m³ - TWA: 2.5 mg/m³ Ceiling: 5 mg/m³ - TWA: 1 mg/m³	TWA: 6 mg/m ³ TWA: 1 mg/m ³	- TWA: 2.5 mg/m ³ TWA: 0.2 mg/m ³ TWA: 0.2 mg/m ³	TWA: 1 mg/m ³ TWA: 2.5 mg/m ³ TWA: 0.02 mg/m ³ TWA: 0.02 mg/m ³
Magnesium oxide; MgO Iron-EDTA-13; Fe-EDTA Calcium fluoride; CaF ₂ Copper sulphate anhydrous; CuSO ₄ Manganese sulphate; MnSO ₄ +1H ₂ O	-	Ceiling: 10 mg/m³ - TWA: 2.5 mg/m³ Ceiling: 5 mg/m³ -	TWA: 6 mg/m ³ TWA: 1 mg/m ³ TWA: 2.5 mg/m ³ - TWA: 0.2 mg/m ³	- TWA: 2.5 mg/m ³ TWA: 1 mg/m ³ TWA: 0.2 mg/m ³	TWA: 1 mg/m ³ TWA: 2.5 mg/m ³ TWA: 0.02 mg/m ³
Magnesium oxide; MgO Iron-EDTA-13; Fe-EDTA Calcium fluoride; CaF2 Copper sulphate anhydrous; CuSO ₄ Manganese sulphate; MnSO ₄ +1H ₂ O Sodium tetraborate	- TWA: 0.2 mg/m ³	Ceiling: 10 mg/m³ - TWA: 2.5 mg/m³ Ceiling: 5 mg/m³ - TWA: 1 mg/m³	TWA: 6 mg/m³ TWA: 1 mg/m³ TWA: 2.5 mg/m³	- TWA: 2.5 mg/m ³ TWA: 0.2 mg/m ³ TWA: 0.2 mg/m ³	TWA: 1 mg/m ³ TWA: 2.5 mg/m ³ TWA: 0.02 mg/m ³ TWA: 0.02 mg/m ³
Magnesium oxide; MgO Iron-EDTA-13; Fe-EDTA Calcium fluoride; CaF ₂ Copper sulphate anhydrous; CuSO ₄ Manganese sulphate; MnSO ₄ +1H ₂ O	- TWA: 0.2 mg/m ³	Ceiling: 10 mg/m³ - TWA: 2.5 mg/m³ Ceiling: 5 mg/m³ - TWA: 1 mg/m³	TWA: 6 mg/m ³ TWA: 1 mg/m ³ TWA: 2.5 mg/m ³ - TWA: 0.2 mg/m ³	- TWA: 2.5 mg/m ³ TWA: 0.2 mg/m ³ TWA: 0.2 mg/m ³	TWA: 1 mg/m ³ TWA: 2.5 mg/m ³ TWA: 0.02 mg/m ³ TWA: 0.02 mg/m ³

Ceiling: 25 mg/m³ Na₂MoO₄ Chemical name France Germany Germany MAK Greece Hungary Calcium sulfate TWA: 10 mg/m³ TWA: 6 mg/m³ TWA: 1.5 ma/m³ TWA: 4 ma/m³ anhydrous; CaSO4 TWA: 4 mg/m³ TWA: 1.5 mg/m³ TWA: 1 mg/m³ Iron sulphate: FeSO₄+7H₂O STEL: 2 mg/m³ TWA: 10 mg/m³ Magnesium oxide; MgO TWA: 10 mg/m³ TWA: 1.25 mg/m³ TWA: 0.3 mg/m³ TWA: 6 mg/m³ TWA: 10 mg/m³ TWA: 4 mg/m³ TWA: 5 mg/m³ Peak: 2.4 mg/m³ Iron-EDTA-13; Fe-EDTA TWA: 1 mg/m³ STEL: 2 mg/m³ -TWA: 4 mg/m³ Wax ---TWA: 1 mg/m³ TWA: 2.5 mg/m³ TWA: 2.5 mg/m³ Calcium fluoride; CaF₂ TWA: 2.5 mg/m³ TWA: 1 mg/m³ Copper sulphate TWA: 0.01 mg/m³ TWA: 0.1 mg/m³ anhydrous; CuSO4 Peak: 0.02 mg/m³ STEL: 0.2 mg/m³ Manganese sulphate: TWA: 0.2 mg/m³ TWA: 0.2 mg/m³ TWA: 0.2 mg/m³ TWA: 0.2 mg/m³ MnSO₄+1H₂O TWA: 0.02 mg/m3 TWA: 0.02 mg/m3 TWA: 0.05 mg/m³ TWA: 0.05 mg/m³ Peak: 1.6 mg/m³ Peak: 0.16 mg/m3 TWA: 10 mg/m³ Sodium tetraborate TWA: 1 mg/m³ TWA: 5 mg/m³ pentahydrate Peak: 5 mg/m³ Zinc sulphate+1H2O; TWA: 0.1 mg/m³ ZnSO₄+1H₂O TWA: 2 mg/m³ Peak: 0.4 mg/m³ Peak: 4 mg/m³ Sodium molvbdate: TWA: 5 mg/m³ TWA: 5 mg/m³ TWA: 5 mg/m³ Na₂MoO₄ STEL: 10 mg/m³ Chemical name Italy Latvia Lithuania Luxembourg Netherlands Diammonium phosphate; TWA: 6 mg/m³ (NH₄)₂HPO₄ TWA: 4 mg/m³ Calcium sulfate anhydrous; CaSO4 Magnesium oxide; MgO TWA: 4 mg/m³ Calcium fluoride; CaF₂ TWA: 0.5 mg/m³ TWA: 2.5 mg/m³ TWA: 2.5 mg/m³ TWA: 2.5 mg/m³ TWA: 2.5 mg/m³ STEL: 2.5 mg/m³ Copper sulphate TWA: 1 mg/m³ TWA: 0.1 mg/m³ TWA: 0.5 mg/m³ TWA: 0.2 mg/m³ anhydrous; CuSO4 TWA: 0.05 mg/m³ TWA: 0.2 mg/m³ TWA: 0.2 mg/m³ TWA: 0.2 mg/m³ Manganese sulphate: MnSO₄+1H₂O TWA: 0.05 mg/m³ TWA: 0.05 mg/m³ TWA: 0.05 mg/m³ TWA: 5 mg/m³ Sodium molvbdate: Na₂MoO₄ TWA: 10 mg/m³ Chemical name Poland Portugal Norway Romania Slovakia Calcium sulfate TWA: 10 mg/m³ TWA: 10 mg/m³ TWA: 4 mg/m³ anhydrous; CaSO4 TWA: 1.5 mg/m³ Iron sulphate; TWA: 1 mg/m³ TWA: 1 mg/m³ FeSO_{4+7H₂O} STEL: 3 mg/m3 TWA: 10 mg/m³ Magnesium oxide; MgO TWA: 10 mg/m³ TWA: 10 mg/m³ TWA: 5 mg/m³ TWA: 10 mg/m³ STEL: 20 mg/m³ STEL: 15 mg/m³ TWA: 4 mg/m³ Iron-EDTA-13; Fe-EDTA TWA: 1 mg/m³ TWA: 1 mg/m³ STEL: 3 mg/m³ Calcium fluoride: CaF2 TWA: 0.5 mg/m³ TWA: 2 mg/m³ TWA: 2.5 mg/m3 TWA: 1 mg/m³ TWA: 2.5 mg/m³ STEL: 1.5 mg/m³ TWA: 2.5 mg/m³ STEL: 2 mg/m³ Copper sulphate TWA: 0.2 mg/m³ TWA: 1 mg/m³ anhydrous; CuSO4 TWA: 0.2 ppm Manganese sulphate: TWA: 0.1 mg/m³ TWA: 0.05 mg/m³ TWA: 0.2 mg/m³ TWA: 0.2 mg/m³ TWA: 0.2 mg/m³ MnSO₄+1H₂O STEL: 0.1 ppm TWA: 0.05 mg/m³ TWA: 0.05 mg/m³ TWA: 2 mg/m³ Sodium tetraborate STEL: 6 mg/m³ pentahydrate

Sodium molybdate; Na ₂ MoO ₄	TWA: 5 mg/m ³ STEL: 10 mg/m ³	STEL: 10 mg/m ³ TWA: 4 mg/m ³	TWA: 0.5 mg/m ³	TWA: 2 mg/m ³ STEL: 5 mg/m ³	TWA: 5 mg/m ³
Chemical name	Slovenia	Spain	Sweden	Switzerland	United Kingdom
Calcium sulfate anhydrous; CaSO ₄	TWA: 6 mg/m ³	TWA: 10 mg/m ³	-	TWA: 3 mg/m ³	-
Iron sulphate; FeSO ₄ +7H ₂ O	-	TWA: 1 mg/m ³	-	TWA: 1 mg/m ³	TWA: 1 mg/m ³
Magnesium oxide; MgO	-	TWA: 10 mg/m ³	-	TWA: 3 mg/m ³	STEL: 12 mg/m ³ TWA: 4 mg/m ³
Iron-EDTA-13; Fe-EDTA	-	TWA: 1 mg/m ³	-	TWA: 1 mg/m ³	TWA: 1 mg/m ³
Calcium fluoride; CaF ₂	TWA: 2.5 mg/m ³ *	TWA: 2.5 mg/m ³	NGV: 2 mg/m ³	-	TWA: 2.5 mg/m ³
Copper sulphate anhydrous; CuSO ₄	-	TWA: 0.1 mg/m ³	NGV: 0.01 mg/m ³	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³	-
Manganese sulphate; MnSO ₄ +1H ₂ O	TWA: 0.05 mg/m ³ STEL: 0.4 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³	NGV: 0.2 mg/m ³ NGV: 0.05 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³
Sodium tetraborate pentahydrate	-	TWA: 2 mg/m ³ STEL: 6 mg/m ³	-	-	TWA: 1 mg/m ³ STEL: 3 mg/m ³
Sodium molybdate; Na ₂ MoO ₄	-	TWA: 0.5 mg/m ³	NGV: 5 mg/m ³ NGV: 10 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Calcium fluoride; CaF ₂	-	4 mg/g Creatinine	-	8 mg/g Creatinine -	-
		(urine - before		urine (Fluorides) -	
		following shift)		at the end of the	
		7 mg/g Creatinine		work shift	
		(urine -		4.0 mg/g Creatinine	
		immediately after		- urine (Fluorides) -	
		exposure or end of		before the start of	
		the shift)		the work shift in the	
				middle of the week	
Manganese sulphate;	-	20 μg/L (blood -	-	-	-
MnSO ₄ +1H ₂ O		whole blood not			
		provided)			
		(-)			
Chemical name	Denmark	Finland	France	Germany	Germany MAK
Calcium fluoride; CaF ₂	-	-	3 mg/g creatinine -	7.0 mg/g Creatinine	7.0 mg/g Creatinine
			urine (Fluorides) -		(urine - Fluoride end
			beginning of shift	end of shift)	of shift)
			10 mg/g creatinine -	4.0 mg/g Creatinine	
			urine (Fluorides) -	(urine - Fluoride	(urine - Fluoride
			end of shift	before beginning of	before beginning of
				next shift)	next shift)
Manganese sulphate;	-	-	-	15 μg/L - BAR (end	-
MnSO ₄ +1H ₂ O				of exposure or end	
				of shift) blood	
				15 μg/L - BAR (for	
				long-term	
				exposures: at the	
				end of the shift after	
				several shifts) blood	
Sodium molybdate;	-	-	-	150 μg/L - BAR (not	-
Na ₂ MoO ₄				determined) urine	
Chemical name	Hungary	Ireland	Italy	Latvia	Romania
Calcium fluoride; CaF ₂	7 mg/g Creatinine	2 mg/L (urine -	-	-	5 mg/g Creatinine -
	(urine - Fluoride	Fluoride prior to			urine (Fluorine) -
	end of shift)	shift)			end of shift
	4 mg/g Creatinine	3 mg/L (urine -			
	(urine - Fluoride	Fluoride end of			

	prior to next shift) 42 µmol/mmol Creatinine (urine - Fluoride end of shift) 24 µmol/mmol Creatinine (urine - Fluoride prior to next shift)	shift)			
Chemical name	Slovakia	Slovenia	Spain	Switzerland	United Kingdom
Calcium fluoride; CaF ₂	-	7.0 mg/g Creatinine - urine (Fluoride) - at the end of the work shift 4.0 mg/g Creatinine - urine () - before the next working day	-	-	-

Derived No Effect Level (DNEL)
Predicted No Effect Concentration

No information available. No information available.

(PNEC)

8.2. Exposure controls

Personal protective equipment Wear normal, light working clothing

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Nitrile rubber (0.26 mm). Break through time. > 8 h.

Skin and body protectionLightweight protective clothing.

Respiratory protectionNo protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained. Prevent

product from entering drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid Appearance: Granules

Color: brown, blue, green, grey

Odor: Fertilizer.

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting Point/Freezing Point:No data availableNone knownBoiling Point/Range:No data availableNone knownFlammability (solid, gas):No data availableNone knownFlammability Limits in Air:None known

Upper Flammability Limit: No data available

Lower Flammability Limit: No data available

Flash Point:No data availableNone knownAutoignition Temperature:No data availableNone knownDecomposition Temperature:None known

pН No data available None known None known pH (as aqueous solution) No data available **Kinematic Viscosity:** No data available None known **Dynamic Viscosity:** No data available None known Water solubility No data available None known Solubility(ies) No data available None known **Partition Coefficient:** No data available None known **Vapor Pressure:** No data available None known Relative density No data available None known

Bulk density

Density:

No data available
+/-1013 kg/m³

Vapour density No data available None known

Particle characteristics

Particle Size No data available
Particle Size Distribution No data available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not applicable

Explosive properties: Doesn't present explosion hazard

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Not reactive.

10.2. Chemical stability

Stability Stable under normal conditions.

Specific methods:

Sensitivity to mechanical impact Not sensitive. Sensitivity to static discharge

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

Incompatible materials Keep away from catalysts like derivates of hexavalent chromium and metal halides. Keep

away from flammable products (fuels) like charcoal, wood, flour, soot etc.

10.6. Hazardous decomposition products

Hazardous Decomposition Products
None under normal processing. Thermal decomposition can lead to release of irritating and

toxic gases and vapors.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

-

Product Information

Inhalation Specific test data for the substance or mixture is not available. Inhalation of dust in high

concentration may cause irritation of respiratory system.

Eye contact Specific test data for the substance or mixture is not available. May cause irritation.

Skin contact May cause irritation.

Ingestion May cause gastrointestinal discomfort if consumed in large amounts.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

Acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium nitrate; NH₄NO₃	= 2217 mg/kg (Rat)	> 5000 mg/kg	> 88.8 mg/L (Rat)4 h
Diammonium phosphate; (NH ₄) ₂ HPO ₄	> 2000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Calcium sulfate anhydrous; CaSO ₄	> 3000 mg/kg (Rat)	-	-
Iron sulphate; FeSO ₄ +7H ₂ O	= 1520 mg/kg	-	-
Magnesium oxide; MgO	= 3870 mg/kg (Rat) = 3990 mg/kg (Rat)	-	-
Iron-EDTA-13; Fe-EDTA	= 5 g/kg (Rat)	-	-
Wax	= 3160 mg/kg (Rat)	-	-
Calcium fluoride; CaF ₂	= 4250 mg/kg (Rat)	-	-
Copper sulphate anhydrous; CuSO ₄	= 300 mg/kg (Rat)	= 1000 mg/kg (Rabbit)	-
Manganese sulphate; MnSO ₄ +1H ₂ O	= 2125 mg/kg (Rat)	-	> 4.98 mg/L (Rat) 4h
Sodium tetraborate pentahydrate	= 2403 mg/kg (Rat)	-	-
Sodium molybdate; Na ₂ MoO ₄	= 4233 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 2080 mg/m ³ (Rat) 4 h

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

Skin corrosion/irritationNo information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization Based on available data, the classification criteria are not met.

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

CarcinogenicityBased on available data, the classification criteria are not met. **Reproductive toxicity**Based on available data, the classification criteria are not met.

Chemical name	European Union
Sodium tetraborate pentahydrate	Repr. 1B
12179-04-3	·

The table below indicates ingredients above the cut-off threshold considered as relevant

which are listed as reproductive toxins.

STOT - single exposure

STOT - repeated exposure

Aspiration hazard

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

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

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

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Harmful to aquatic life with long lasting effects.

Unknown aquatic toxicity

Contains 8 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Diammonium phosphate; (NH ₄) ₂ HPO ₄	-	LC50: 24.8 - 29.4mg/L (96h, Oncorhynchus mykiss) LC50: =26.5mg/L (96h, Oncorhynchus mykiss) LC50: =3.3mg/L (96h, Pimephales promelas) LC50: =33mg/L (96h, Pimephales promelas)	<u>-</u>	-
Calcium sulfate anhydrous; CaSO ₄	-	LC50: =2980mg/L (96h, Lepomis macrochirus) LC50: >1970mg/L (96h, Pimephales promelas)	-	-
Iron-EDTA-13; Fe-EDTA	-	LC50: >100mg/L (96h, Oncorhynchus mykiss)	-	-
Copper sulphate anhydrous; CuSO ₄	-	LC50: =0.1mg/L (96h, Oncorhynchus mykiss)	-	0.024: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

Persistence and Degradability: No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name		Partition coefficient	
	Ammonium nitrate; NH4NO3	-3.1	

12.4. Mobility in soil

Mobility in soilno data available.Mobilityno data available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Ammonium nitrate; NH ₄ NO ₃	The substance is not PBT / vPvB PBT assessment does not apply Further
	information relevant for the PBT assessment is necessary
Diammonium phosphate; (NH ₄) ₂ HPO ₄	The substance is not PBT / vPvB PBT assessment does not apply
Calcium sulfate anhydrous; CaSO ₄	The substance is not PBT / vPvB PBT assessment does not apply
Iron-EDTA-13; Fe-EDTA	The substance is not PBT / vPvB PBT assessment does not apply
Calcium fluoride; CaF ₂	The substance is not PBT / vPvB PBT assessment does not apply
Copper sulphate anhydrous; CuSO ₄	The substance is not PBT / vPvB PBT assessment does not apply
Manganese sulphate; MnSO ₄ +1H ₂ O	The substance is not PBT / vPvB PBT assessment does not apply
Zinc sulphate+1H2O; ZnSO ₄ +1H ₂ O	The substance is not PBT / vPvB
Sodium molybdate; Na₂MoO₄	The substance is not PBT / vPvB PBT assessment does not apply

12.6. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

12.7. Other adverse effects

.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

AMMONIUM NITRATE BASED FERTILIZER

environmental legislation.

Contaminated packaging Do not reuse empty containers.

Other Information Use up product completely. Packaging material is industrial waste. If material is

uncontaminated, collect and reuse as recommended for product.

SECTION 14: Transport information

IMDG		
14.1		
<u>14.1</u> UN-No: 14.2_	2071	
14.2_		

9

Proper shipping name: AMMONIUM NITRA

14.3

Transport hazard class(es)

14.4 Packing group:

14.5

Marine Pollutant: Not regulated

Chemical name	IMDG - Marine Pollutants
Copper sulphate anhydrous; CuSO ₄	IMDG regulated marine pollutant (Listed in the index,
	listed under Copper sulphate, anhydrous, hydrates and
	solution)

14.6

 EmS:
 F-H / S-Q

 Special Provisions
 186, 193

14.7

Bulk transport according Annex II of MARPOL and IBC Code No data available

ADR

14.1

UN-No: Not regulated

14.2

Proper shipping name: Not regulated

14.3

Transport hazard class(es)

Not regulated

<u>14.4</u>

Packing group: Not regulated

<u>14.5</u>

Environmental hazards Not regulated

<u>14.6</u>

Special Provisions None

IATA

14.1

UN number or ID number 2071

14.2

Proper shipping name: AMMONIUM NITRATE BASED FERTILIZER

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Not regulated

14.3

Transport hazard class(es)

14.4

Packing group

14.5

Environmental hazards

14.6

Special Provisions A89, A90



SECTION 15: Regulatory information

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

National regulations

Denmark

Sikkerhedsgruppe DK B

France

ICPE Classified installation: article 4702

Chemical name	French RG number	Title
Calcium fluoride; CaF ₂	RG 32	-

Germany

Gefahrstoffverordnung (Germany) TRGS 511 B II

Water hazard class (WGK) non-hazardous to water (nwg)

Chemical name	German WGK Section
Ammonium nitrate; NH ₄ NO ₃	1
Diammonium phosphate; (NH ₄) ₂ HPO ₄	1
Calcium sulfate anhydrous; CaSO ₄	Reg. no. 325, hazard class 1 - slightly hazardous to water

Chemical name	German WGK Section
Iron sulphate; FeSO ₄ +7H ₂ O	3
Magnesium oxide; MgO	1
Iron-EDTA-13; Fe-EDTA	2
Wax	3
Calcium fluoride; CaF ₂	1
Copper sulphate anhydrous; CuSO ₄	2
Manganese sulphate; MnSO ₄ +1H ₂ O	2
Sodium tetraborate pentahydrate	Reg. no. 37, hazard class 1 - slightly hazardous to water
Zinc sulphate+1H2O; ZnSO ₄ +1H ₂ O	3
Sodium molybdate; Na ₂ MoO ₄	1

Netherlands

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
Manganese sulphate; MnSO ₄ +1H ₂ O	-	-	Fertility Category 2
			Development Category 2
Sodium tetraborate pentahydrate	-	-	Fertility Category 1B
			Development Category 1B
Sodium molybdate; Na ₂ MoO ₄	-	-	Fertility Category 2

European Union

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.

Take note of Directive 94/33/EC on the protection of young people at work

Not to be used by professional users below 18 years of age, see the National Working Environment Authorities Executive Order on young peoples dangerous work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
	58.	-
Ammonium nitrate; NH 4NO3		
	30.	-
Sodium tetraborate pentahydrate		

REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors

respectively	oo produitoro
Chemical name	REGULATION (EU) 2019/1148 on the marketing and
	use of explosives precursors
Ammonium nitrate; NH₄NO₃	Present (16% by weight of N in relation to AN or higher)

Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

Persistent Organic Pollutants

Not applicable

Named dangerous substances per Seveso Directive (2012/18/EU)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
	350	2500
Ammonium nitrate; NH 4NO3		

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Last Revision Date 10-Dec-2021

7619-225HA --- Ficote Total 17-9-10+2MgO+TE; 12-14M

Plant protection products directive (91/414/EEC)

Chemical name	Plant protection products directive (91/414/EEC)
	Plant protection agent
Diammonium phosphate; (NH 4)2HPO4	
	Plant protection agent
Iron sulphate; FeSO 4+7H2O	_

EU - Biocides

International Inventories:

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report Substance(s) usage is covered according to Reach regulation 1907/2006

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H272 - May intensify fire; oxidizer

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H360 - May damage fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

Classification procedure

- Calculation method
- Expert judgment and weight of evidence determination

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method

	
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Prepared by Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)

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Restrictions on use Restricted to professional users

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End of Safety Data Sheet