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 17-Jan-2022 Version: 1

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

1.1. Product identifier

Product Name
Product Code
Unique Formula Identifier (UFI)
Pure substance/mixture

Osmocote Exact High K 12-7-19+TE 8848-225HA 0NGS-V0HF-Q00F-H1KT

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

110941411011 (20) 110 127212000	
Serious eye damage/eye irritation	Category 1 - (H318)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements



Contains Potassium sulphate; K₂SO₄, Manganese sulphate; MnSO₄, Calcium phosphate monobasic; Ca(H₂PO₄)₂

Signal word

Danger

Hazard statements

H318 - Causes serious eye damage

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No	Weight-%	Classification according to Regulation (EC) No. 1272/2008	Specific concentration limit (SCL)	REACH registration number	M-Factor	M-Factor (long-term)
Ammonium nitrate; NH4NO ₃ (6484-52-2)	229-347-8	25 - 40%	[CLP] Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	Eye Irrit. 2 :: C>=80%	01-2119490981-27	-	-
Potassium sulphate; K ₂ SO ₄ (7778-80-5)	231-915-5	10 - 25%	Eye Dam. 1 (H318)	-	01-2119489441-34	-	-
Iron sulphate; FeSO ₄ +7H ₂ O (7782-63-0)	231-753-5	1 - 5%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	Skin Irrit. 2 :: C>=25%	01-2119513203-57	-	-
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 (7785-87-7)	232-089-9	0.1 - 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 - 1%	Eye Dam. 2 (H319) Carc.1B (H360)	-	01-2119490790-32	-	-

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 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 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L
Ammonium nitrate; NH4NO3	2217	5000	88.8
Potassium sulphate; K ₂ SO ₄	6600	No data available	No data available
Copper sulphate anhydrous; CuSO ₄	300	1000	No data available
Manganese sulphate; MnSO ₄	782	No data available	No data available
Sodium tetraborate pentahydrate	2403	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 Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact Get immediate medical advice/attention. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Call a physician.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms Burning sensation.

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

Note to physicians Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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 Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

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

For emergency responders

Use personal protection recommended in Section 8. Prevent entry into waterways, sewers,

basements or confined areas.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

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 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Keep out of the reach of children.

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

LGK (Germany) TRGS 510 5.1C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Potassium sulphate;	-	-	-	TWA: 10.0 mg/m ³	-
K ₂ SO ₄					
Iron sulphate;	-	-	TWA: 1 mg/m ³	TWA: 1.0 mg/m ³	TWA: 1 mg/m ³
FeSO ₄ +7H ₂ O		OTEL 4 / 3		T)4/4 4 0 / 2	STEL: 2 mg/m ³
Copper sulphate	-	STEL 4 mg/m ³ TWA: 1 mg/m ³	-	TWA: 1.0 mg/m ³	-
anhydrous; CuSO ₄ 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	-	STEL 1.6 mg/m ³	TVVA. 0.2 mg/m²	T VVA. 0.05 mg/m²	TWA: 0.2 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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ammonium nitrate;	, -	TWA: 10.0 mg/m ³	-	-	-
NH4NO3		0			
Iron sulphate;	-	-	TWA: 1 mg/m ³	-	TWA: 1 mg/m ³
FeSO ₄ +7H ₂ O					
Copper sulphate	-	-	-	TWA: 1 mg/m ³	TWA: 0.02 mg/m ³
anhydrous; CuSO ₄				TWA: 0.2 mg/m ³	
Manganese sulphate;	TWA: 0.2 mg/m ³	TWA: 1 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.02 mg/m ³
MnSO ₄	TWA: 0.05 mg/m ³	Ceiling: 2 mg/m ³	T14/4 4 / 2	TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³
Sodium tetraborate	-	-	TWA: 1 mg/m ³	-	-
pentahydrate Chemical name	France	Cormony	Germany MAK	Greece	Hungary
Iron sulphate;	- France	Germany	Germany WAK	TWA: 1 mg/m ³	nungary
FeSO ₄ +7H ₂ O	_	_	-	STEL: 2 mg/m ³	-
Copper sulphate	-	-	TWA: 0.01 mg/m ³		TWA: 0.1 mg/m ³
anhydrous; CuSO ₄			Peak: 0.02 mg/m ³		STEL: 0.2 mg/m ³
Manganese sulphate;	-	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³
MnSO ₄		TWA: 0.02 mg/m ³	TWA: 0.02 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.05 mg/m ³
			Peak: 1.6 mg/m ³	-	
			Peak: 0.16 mg/m ³		
Sodium tetraborate	TWA: 1 mg/m ³	-	TWA: 5 mg/m ³	TWA: 10 mg/m ³	-
pentahydrate			Peak: 5 mg/m ³		
Chemical name	Italy	Latvia	Lithuania	Luxembourg	Netherlands
Potassium sulphate; K ₂ SO ₄	-	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-	-
Copper sulphate	-	TWA: 0.5 mg/m ³	TWA: 1 mg/m ³	-	TWA: 0.1 mg/m ³
anhydrous; CuSO4			TWA: 0.2 mg/m ³		
Manganese sulphate;	TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	-	TWA: 0.2 mg/m ³
MnSO ₄		TWA: 0.05 mg/m ³	TWA: 0.05 mg/m ³		TWA: 0.05 mg/m ³
Chemical name	Norway	Poland	Portugal	Romania	Slovakia
Iron sulphate;	TWA: 1 mg/m ³	-	TWA: 1 mg/m ³	-	-
FeSO ₄ +7H ₂ O	STEL: 3 mg/m ³	T\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			T\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Copper sulphate	-	TWA: 0.2 mg/m ³	-	-	TWA: 1 mg/m ³ TWA: 0.2 ppm
anhydrous; CuSO ₄ Manganese sulphate;	TWA: 0.1 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 ppm TWA: 0.2 mg/m ³
MnSO ₄	STEL: 0.1 ppm	i w.A. 0.05 mg/m²	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	I VVA. U.Z IIIY/III
IVII IOO4	L STEE. O. I PPIII		1 447 t. 0.00 mg/m	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Sodium tetraborate pentahydrate	-	-	TWA: 2 mg/m ³ STEL: 6 mg/m ³	-	-
Chemical name	Slovenia	Spain	Sweden	Switzerland	United Kingdom
Iron sulphate; FeSO ₄ +7H ₂ O	-	TWA: 1 mg/m ³	-	TWA: 1 mg/m ³	TWA: 1 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	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

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Manganese sulphate; MnSO ₄	-	20 μg/L (blood - whole blood not provided) (-)	-	-	-
Chemical name	Denmark	Finland	France	Germany	Germany
Manganese sulphate; MnSO ₄	-	-		15 µg/L - BAR (end 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	-

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available. No information available.

8.2. Exposure controls

Personal protective equipment Wear normal, light working clothing

Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

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

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

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: Various 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 known

Decomposition Temperature: None known

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

Relative density

Bulk density

Density:

No data available

No data available

No data available

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

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 Not sensitive.

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 Strong acids. Strong bases. Strong oxidizing agents.

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.

Eye contact Causes serious eye damage.

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

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document ATEmix (oral) 34,722.20 mg/kg

ATEINIX (OTAL) 54,722.20 Hig/kg

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

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium nitrate; NH ₄ NO ₃	= 2217 mg/kg (Rat)	> 5000 mg/kg	> 88.8 mg/L (Rat) 4 h
Potassium sulphate; K ₂ SO ₄	= 6600 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Iron sulphate; FeSO ₄ +7H ₂ O	= 1520 mg/kg	-	-
Copper sulphate anhydrous; CuSO ₄	= 300 mg/kg (Rat)	= 1000 mg/kg (Rabbit)	-
Manganese sulphate; MnSO ₄	= 2125 mg/kg (Rat)	-	> 4.98 mg/L (Rat) 4h
Sodium tetraborate pentahydrate	= 2403 mg/kg (Rat)	-	-

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

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Risk of serious

damage to eyes.

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

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Harmful to aquatic life with long lasting effects.

Unknown aquatic toxicity

Contains 7 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Potassium sulphate; K ₂ SO ₄	EC50: =2900mg/L (72h,	LC50: 510 - 880mg/L	-	EC50: =890mg/L (48h,
	Desmodesmus	(96h, Pimephales		Daphnia magna)
	subspicatus)	promelas)		
		LC50: =3550mg/L (96h,		
		Lepomis macrochirus)		
		LC50: =653mg/L (96h,		
		Lepomis macrochirus)		
Copper sulphate anhydrous;	-	LC50: =0.1mg/L (96h,	-	0.024: 48 h Daphnia
CuSO ₄		Oncorhynchus mykiss)		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; NH ₄ NO ₃	-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; NH₄NO₃	The substance is not PBT / vPvB PBT assessment does not apply Further

	information relevant for the PBT assessment is necessary
Potassium sulphate; K ₂ SO ₄	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	The substance is not PBT / vPvB PBT assessment does not apply

12.6. Endocrine disrupting properties

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

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		
UN-No:	2071	
14.2		
Proper shipping name:	AMMONIUM NITRATE BASED FERTILIZER	
14.3		
Transport hazard class(es)	9	
14.4		
Packing group:	III	
14.5		
Marine Pollutant:	Not regulated	
Chemical name	IMDG - Marine Pollutants	
Copper sulphate anhydrous: CuSO ₄	IMDG regulated marine pollutant (Listed in the index	

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)

<u>14.6</u>

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
<u>14.2</u>	
Proper shipping name:	Not regulated
14.3	
Transport hazard class(es)	Not regulated
14.4	N. c. L. C. L.
Packing group:	Not regulated
14.5	Not regulated
Environmental hazards	Not regulated
14.6 Special Provisions	None
Special Provisions	NOTIE

9

IATA

UN number or ID number 2071

<u>14.2</u>

Proper shipping name: AMMONIUM NITRATE BASED FERTILIZER

14.3

Transport hazard class(es)

14.4

Packing group III

14.5

Environmental hazards Not regulated

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

Germany

LGK (Germany) TRGS 510 5.1C Gefahrstoffverordnung (Germany) TRGS 511 B II

Water hazard class (WGK) slightly hazardous to water (WGK 1)

Chemical name	German WGK Section
Ammonium nitrate; NH₄NO₃	1
Potassium sulphate; K ₂ SO ₄	1
Iron sulphate; FeSO ₄ +7H ₂ O	3
Copper sulphate anhydrous; CuSO ₄	2
Manganese sulphate; MnSO ₄	2
Sodium tetraborate pentahydrate	Reg. no. 37, hazard class 1 - slightly hazardous to water

Netherlands

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

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

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

EU - Plant Protection Products (1107/2009/EC)

Chemical name	EU - Plant Protection Products (1107/2009/EC)
	Plant protection agent
Iron sulphate; FeSO 4+7H2O	

Biocidal Products Regulation (EU) No 528/2012 (BPR)

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

H332 - Harmful if inhaled

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)

Last Revision Date 17-Jan-2022

Restrictions on use Restricted to professional users

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

This information contained herein is, to the best of Everris' knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Everris shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, Everris shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

End of Safety Data Sheet