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 14-Feb-2022 Version: 1

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

1.1. Product identifier

Product Name Osmocote Exact Mini 15-9-11+2MgO+TE **Product Code** 8853-210HA **REACH** registration number Not applicable Mixture

Pure substance/mixture

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

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

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	088 755 8000 (24/7)
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 SW 145 (24h)
United Kingdom	111

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Chronic aquatic toxicity Category 2 - (H411)

2.2. Label elements



H411 - Toxic to aquatic life with long lasting effects

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

P391 - Collect spillage

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 (EU Index No)	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number	M-Factor	M-Factor (long-term)
Ammonium nitrate; NH₄NO₃ (6484-52-2)	229-347-8	25 - 40%	Eye Irrit. 2 (H319) Ox. Sol. 3 (H272)	10%<=C<100%	01-2119490981- 27	-	-
Iron sulphate; FeSO₄+7H₂O (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	-	-
Disodium tetraborate pentahydrate (12179-04-3)	601-808-1	0.1 - 1%	Eye Dam. 2 (H319) Carc.1B (H360)	-	01-2119490790- 32	-	-

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret

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; NH ₄ NO ₃	2217	5000	88.8
Copper sulphate anhydrous; CuSO ₄	300	2000	No data available
Manganese sulphate; MnSO ₄	782	No data available	No data available
Disodium tetraborate pentahydrate	2403	No data available	No data available

Chemical name	CAS No	SVHC candidates
Disodium 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

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/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

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. Keep away from frost.

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 13

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Iron sulphate; FeSO ₄ +7H ₂ O	-	-	TWA: 1 mg/m ³	TWA: 1.0 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Copper sulphate anhydrous; CuSO ₄	-	TWA: 1 mg/m ³ TWA: 0.1 mg/m ³ STEL 4 mg/m ³ STEL 0.4 mg/m ³	-	TWA: 1.0 mg/m ³	- -
Manganese sulphate; MnSO ₄	-	TWA: 0.2 mg/m ³ STEL 1.6 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³
Disodium tetraborate pentahydrate	-	-	TWA: 2 mg/m ³ STEL: 6 mg/m ³	TWA: 5.0 mg/m ³	TWA: 1 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ammonium nitrate; NH₄NO₃	-	TWA: 10.0 mg/m ³	-	-	-
Iron sulphate; FeSO ₄ +7H ₂ O	-	-	TWA: 1 mg/m ³ STEL: 2 mg/m ³	-	TWA: 1 mg/m ³
Copper sulphate anhydrous; CuSO4	-	-	-	TWA: 1 mg/m ³ TWA: 0.2 mg/m ³	TWA: 0.02 mg/m ³
Manganese sulphate; MnSO ₄	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³	TWA: 1 mg/m ³ Ceiling: 2 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ STEL: 0.4 mg/m ³ STEL: 0.1 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.02 mg/m ³ TWA: 0.2 mg/m ³
Disodium tetraborate pentahydrate	-	1	TWA: 1 mg/m ³ STEL: 2 mg/m ³	1	1
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Iron sulphate; FeSO ₄ +7H ₂ O	-	-	-	TWA: 1 mg/m ³ STEL: 2 mg/m ³	-
Copper sulphate anhydrous; CuSO ₄	-	1	TWA: 0.01 mg/m ³ Peak: 0.02 mg/m ³	1	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³
Manganese sulphate; MnSO ₄	-	TWA: 0.2 mg/m ³ TWA: 0.02 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.02 mg/m ³ Peak: 1.6 mg/m ³ Peak: 0.16 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³
Disodium tetraborate pentahydrate	TWA: 1 mg/m ³	-	TWA: 5 mg/m ³ Peak: 5 mg/m ³	TWA: 10 mg/m ³	-
Chemical name	Italy MDLPS	Latvia	Lithuania	Luxembourg	Netherlands
Copper sulphate anhydrous; CuSO ₄	-	TWA: 0.5 mg/m ³	TWA: 1 mg/m ³ TWA: 0.2 mg/m ³	-	TWA: 0.1 mg/m ³
Manganese sulphate; MnSO ₄	TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³
Chemical name	Norway	Poland	Portugal	Romania	Slovakia
Iron sulphate; FeSO ₄ +7H ₂ O	TWA: 1 mg/m ³ STEL: 3 mg/m ³	-	TWA: 1 mg/m ³	-	-
Copper sulphate anhydrous; CuSO4	-	TWA: 0.2 mg/m ³	-	-	TWA: 1 mg/m ³ TWA: 0.2 ppm
Manganese sulphate; MnSO ₄	TWA: 0.1 mg/m ³ STEL: 0.1 ppm	TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³
Disodium tetraborate pentahydrate	-	-	TWA: 2 mg/m ³ STEL: 6 mg/m ³	-	-

Chemical name	Slovenia	Spain	Sweden	Switzerland	United Kingdom
Iron sulphate;	-	TWA: 1 mg/m ³	-	TWA: 1 mg/m ³	TWA: 1 mg/m ³
FeSO ₄ +7H ₂ O					STEL: 2 mg/m ³
Copper sulphate	-	TWA: 0.01 mg/m ³	NGV: 0.01 mg/m ³	TWA: 0.1 mg/m ³	TWA: 1 mg/m ³
anhydrous; CuSO₄			-	STEL: 0.2 mg/m ³	STEL: 2 mg/m ³
Manganese sulphate;	TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³	NGV: 0.2 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.2 mg/m ³
MnSO ₄	STEL: 0.4 mg/m ³	TWA: 0.05 mg/m ³	NGV: 0.05 mg/m ³		TWA: 0.05 mg/m ³
					STEL: 0.6 mg/m ³
					STEL: 0.15 mg/m ³
Disodium tetraborate	-	TWA: 2 mg/m ³	-	-	TWA: 1 mg/m ³
pentahydrate		STEL: 6 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 DFG	Germany TRGS
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 Wear safety glasses with side shields (or goggles).

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

Skin and body protection Lightweight protective clothing.

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, green, red

Odor: Fertilizer.

PropertyValuesRemarks • MethodMelting Point/Freezing Point:No data availableNone known

Boiling Point/Range: No data available None known Flammability (solid, gas): No data available None known Flammability Limits in Air: None known

Upper Flammability Limit: Not applicable
Lower Flammability Limit: Not applicable
Not applicable

Flash Point: No data available None known Autoignition Temperature: No data available None known Decomposition Temperature: None known

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

Relative densityNo data availableBulk density1102 kg/m³Density: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 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 use conditions. 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

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

concentration may cause irritation of respiratory system.

Eve 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

No information available. **Symptoms**

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document 25,906.70 mg/kg

ATEmix (oral)

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

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium nitrate; NH4NO3	onium nitrate; NH ₄ NO ₃ = 2217 mg/kg (Rat)		> 88.8 mg/L (Rat) 4 h
Iron sulphate; FeSO ₄ +7H ₂ O	= 1520 mg/kg	-	-
Copper sulphate anhydrous; CuSO ₄	= 300 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Manganese sulphate; MnSO ₄	= 2125 mg/kg (Rat)	-	> 4.98 mg/L (Rat) 4h
Disodium tetraborate pentahydrate	= 2403 mg/kg (Rat)	-	-

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

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

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

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

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

Reproductive toxicity	Based on available data, the clas	sification criteria are not met.
	Chemical name	Furopean Union

Chemical name	European Union
Disodium 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 Toxic 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
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
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 This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects

. No information available.

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

AMMONIUM NITRATE BASED FERTILIZER Proper shipping name:

14.3

Transport hazard class(es) 9

14.4

Ш Packing group:

<u>14.5</u>

This material meets the definition of a marine pollutant **Marine Pollutant:**

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

F-H/S-Q EmS: **Special Provisions** 186, 193

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

F	۱I	J	h	(
_	_	_	_	_

14.1 UN-No: Not regulated

14.2

Proper shipping name: Not regulated

Not regulated Transport hazard class(es)

14.4

Packing group: Not regulated

14.5

Environmental hazards Not regulated

14.6

Special Provisions None

IATA

14.1

UN number or ID number 2071

14.2

Proper shipping name: AMMONIUM NITRATE BASED FERTILIZER

14.3

Transport hazard class(es) 9

14.4

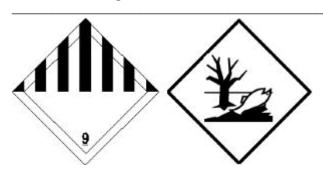
Packing group Ш

14.5

Not regulated **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

Germany

LGK (Germany) TRGS 510 13 Gefahrstoffverordnung (Germany) TRGS 511 B II

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

Chemical name	German WGK Section
Ammonium nitrate; NH4NO3	Reg. no. 212, hazard class 1 - slightly hazardous to water
Iron sulphate; FeSO ₄ +7H ₂ O	3
Copper sulphate anhydrous; CuSO ₄	2
Manganese sulphate; MnSO ₄	2
Disodium tetraborate pentahydrate	Reg. no. 37, hazard class 1 - slightly hazardous to water

Netherlands

Chemical name	Netherlands - List of	Netherlands - List of	Netherlands - List of
	Carcinogens	Mutagens	Reproductive Toxins
Manganese sulphate; MnSO ₄	-	-	Fertility Category 2
			Development Category 2
Disodium 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	Substance subject to authorization

	Annex XVII	per REACH Annex XIV
	58.	-
Ammonium nitrate; NH 4NO3		
	75.	-
Iron sulphate; FeSO 4+7H2O		
	75.	-
Copper sulphate anhydrous; CuSO 4		
	30.	-
Disodium tetraborate pentahydrate	75.	

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

Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

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		5000

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)

2:00:00: 1:00:00:00 10:00:00: (20):10:020:20:2(2:11)	
Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
	Product type 2
Copper sulphate anhydrous; CuSO 4	
	8 - Wood preservatives
Disodium tetraborate pentahydrate	·

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 14-Feb-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