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 07-Nov-2024 Version: 3

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

1.1. Product identifier

Product Name Osmocote Exact Standard 15-9-11+2MgO+TE; 8-9M

Product Code 8842-225HA
Unique Formula Identifier (UFI) Not required
Safety data sheet number 8842-225HA

REACH registration number Not applicable

Synonyms: Osmocote Exact Standard 15-3.9-9.1+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-RA@ICL-GROUP.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	+32 (0) 70 245 245
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	+47 22 59 13 00
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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Chronic aquatic toxicity	Category 3 - (H412)
Cutonic adulatic 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.

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; NH ₄ NO ₃ (6484-52-2)	229-347-8	25 - 40%	Eye irrit. 2 (H319) Ox. Sol. 3 (H272)		01-2119490981- 27	•	-
Potassium nitrate; KNO ₃ (7757-79-1)	231-818-8	1 - 5%	Ox. Sol. 3 (H272)	-	01-2119488224- 35-0020	-	-
Iron sulphate; FeSO ₄ +7H ₂ O (7782-63-0)	616-510-7	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 (029-004-00-0)	0.1 - 0.3%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	01-2119520566- 40	10	10
Manganese sulphate; MnSO ₄ (7785-87-7)	232-089-9	0.1 - 0.3%	STOT RE 2 (H373) Aquatic Chronic 2 (H411) Eye dam. 1 (H318)	-	01-2119456624- 35	-	-
Disodium tetraborate pentahydrate (12179-04-3)	601-808-1	0.1 - 0.3%	Repr. 1B (H360FD)	-	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; NH₄NO₃	2217	5000	0.527
Potassium nitrate; KNO₃	3015	5000	0.527
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.

In the case of inhalationIn 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.

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 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

PGS-7 (The Netherlands) 2/B

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Potassium nitrate; KNO ₃	-	•	•	TWA: 5.0 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
Copper sulphate	-	TWA: 1 mg/m ³	-	TWA: 1.0 mg/m ³	-
anhydrous; CuSO₄		TWA: 0.1 mg/m ³			
		STEL 4 mg/m ³			
		STEL 0.4 mg/m ³			
Manganese sulphate;	-	TWA: 0.2 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³
MnSO ₄		STEL 1.6 mg/m ³			TWA: 0.05 mg/m ³
Disodium tetraborate	-	-	TWA: 2 mg/m ³	TWA: 5.0 mg/m ³	TWA: 1 mg/m ³
pentahydrate			STEL: 6 mg/m ³		
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ammonium nitrate;	-	TWA: 10.0 mg/m ³	-	-	-
NH4NO3					
Iron sulphate;	-	-	TWA: 1 mg/m ³	-	TWA: 1 mg/m ³
FeSO ₄ +7H ₂ O			STEL: 2 mg/m ³		
Copper sulphate	-	-	-	TWA: 1 mg/m ³	TWA: 0.02 mg/m ³
anhydrous; CuSO4				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
MnSO₄	TWA: 0.05 mg/m ³	Ceiling: 2 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³
			STEL: 0.4 mg/m ³		
			STEL: 0.1 mg/m ³		
Disodium tetraborate	-	-	TWA: 1 mg/m ³	-	-
pentahydrate			STEL: 2 mg/m ³		
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Iron sulphate;	-	-	-	TWA: 1 mg/m ³	-
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; CuSO4			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		
Disodium 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 MDLPS	Latvia	Lithuania	Luxembourg	Netherlands
Potassium nitrate; KNO ₃	-	TWA: 5 mg/m ³	TWA: 5 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	TWA: 0.2 mg/m ³

MnSO ₄		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	1	-
Copper sulphate anhydrous; CuSO ₄	-	TWA: 0.2 mg/m ³	1	-	TWA: 1 mg/m ³ TWA: 0.2 ppm
Manganese sulphate; MnSO ₄	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ STEL: 0.6 ppm STEL: 0.15 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: 0.05 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; FeSO ₄ +7H ₂ O	-	TWA: 1 mg/m ³	-	TWA: 1 mg/m ³	TWA: 1 mg/m³ STEL: 2 mg/m³
Copper sulphate anhydrous; CuSO ₄	-	TWA: 0.01 mg/m ³	NGV: 0.01 mg/m ³	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³	TWA: 1 mg/m ³ STEL: 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: 0.2 mg/m ³ TWA: 0.1 mg/m ³	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ STEL: 0.6 mg/m ³ STEL: 0.15 mg/m ³
Disodium tetraborate pentahydrate	-	TWA: 2 mg/m ³ STEL: 6 mg/m ³	-	-	TWA: 1 mg/m³ STEL: 3 mg/m³

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Manganese sulphate;	-	Check	-	-	=
MnSO ₄		20 μg/L (blood -			
		whole blood not			
		provided)			
		(-)			
Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
Manganese sulphate;	-	-	-	15 μg/L - BAR (no	-
MnSO ₄				restriction in steady	
				state) blood	

Derived No Effect Level (DNEL)

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 stateSolidAppearance:GranulesColor:Brown, greenOdor:Fertilizer.

Property Values Remarks • Method

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:Not applicableLower Flammability Limit:Not applicable

Flash Point: No data available None known

Autoignition Temperature:No data availableNone knownDecomposition Temperature:None known

No data available pН None known pH (as aqueous solution) No data available None known **Kinematic Viscosity:** No data available None known **Dvnamic 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

Bulk density

No data available

No data available

Vapour density No data available None known

No data available

Particle characteristics

Particle Size No data available Particle Size Distribution No data available

9.2. Other information Not applicable

9.2.1. Information with regard to physical hazard classes

Not applicable

Density:

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 Not sensitive.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

None known

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

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

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 25,641.00 mg/kg

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

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium nitrate; NH ₄ NO ₃	= 2217 mg/kg (Rat)	> 5000 mg/kg (Rat)	> 0.527 mg/L (Rat) 4 h
Potassium nitrate; KNO₃	= 3015 mg/kg (Rat)	> 5000 mg/kg (Rat)	> 0.527 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	= 782 mg/kg (Rat)	-	> 4.45 mg/L (Rat) 4 h
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.

No information available. Serious eye damage/eye irritation

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.

Carcinogenicity Based 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
Disodium tetraborate pentahydrate	Repr. 1B
12179-04-3	

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

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**

Endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

Not applicable.

Harmful to aquatic life with long lasting effects. **Ecotoxicity**

Unknown aquatic toxicity

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Copper sulphate anhydrous;	-	LC50: =0.1mg/L (96h,	-	EC50: 0.0058 -
CuSO ₄		Oncorhynchus mykiss)		0.0073mg/L (48h,
				Daphnia magna)

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

no data available. Mobility in soil

Mobility no 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
Potassium nitrate; KNO₃	The substance is not PBT / vPvB
Copper sulphate anhydrous; CuSO ₄	The substance is not PBT / vPvB
Manganese sulphate; MnSO ₄	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

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

Proper shipping name: AMMONIUM NITRATE BASED FERTILIZER

14.3

Transport hazard class(es) 9

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, [Note
	1], listed under Copper sulphate, anhydrous, hydrates and
	solution)

14.6

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

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

ADR

<u>14.1</u>

UN-No: Not regulated

14.2

Proper shipping name: Not regulated

14.3

Transport hazard class(es)

Not regulated

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

14.2

Proper shipping name: AMMONIUM NITRATE BASED FERTILIZER

2071

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14.3

Transport hazard class(es) 9

14.4

Packing group

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

Gefahrstoffverordnung (Germany) TRGS 511 Not applied

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

Chemical name	German WGK Section
Ammonium nitrate; NH ₄ NO ₃	Reg. no. 212, hazard class 1 - slightly hazardous to water
Potassium nitrate; KNO ₃	Reg. no. 346, hazard class 1 - slightly hazardous to water
Iron sulphate; FeSO ₄ +7H ₂ O	3
Copper sulphate anhydrous; CuSO ₄	Reg. no. 141, hazard class 3 - highly hazardous to water
Manganese sulphate; MnSO ₄	Reg. no. 522, hazard class 2 - obviously hazardous to
	water
Disodium 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
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 Annex XVII	Substance subject to authorization per REACH Annex XIV
Ammonium nitrate; NH ₄ NO ₃	Use restricted. See entry 58.	-
Iron sulphate; FeSO ₄ +7H ₂ O	Use restricted. See entry 75.	-
Copper sulphate anhydrous; CuSO ₄	Use restricted. See entry 75.	-
Disodium tetraborate pentahydrate	Use restricted. See entry 30. Use restricted. See entry 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	F	Present (16% by weight of N in relation to AN or higher)	
Potassium nitrate; KNO₃	F	Present	

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.

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

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
	5000	10.000
Ammonium nitrate: NH4NO3		

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 +7H ₂ O	

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

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
	Product-type 8: Wood preservatives

Disodium tetraborate pentahydrate	

International Inventories:

TSCA
PICCS:
This product complies with USINV
This product does not comply with phil:
This product does not comply with AICS

Substances

Legend:

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

Leaend

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

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value Sk* 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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End of Safety Data Sheet