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 06-Dec-2021

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) Safety data sheet number

Osmocote Pro 18-9-10+2MgO+TE; 8-9M 8755-225HA Not required 8755-225HA

REACH registration number Pure substance/mixture Not applicable 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

2.2. Label elements

Hazard statements

H412 - Harmful to aquatic life with long lasting effects EUH204 - Contains isocyanates. May produce an allergic reaction Category 3 - (H412)

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Index No according to Regulation (EC) No. 1277/2008 concentration limit (SCL) registration number (long-term) Ammonium nitrate; NH4NOs (6484-52-2) 229-347-8 25 - 40% Eye irrit. 2 (H319) Ox. Sol. 3 (H272) Eye Irrit. 2 ::: 10% <=C<100% 01-2119490981- 27 - - Potassium nitrate; (M345-2-2) 21-818-8 1 - 5% Ox. Sol. 3 (H272) - 01-2119488224- 35-0020 - - Potassium nitrate; (T757-79-1) 616-510-7 1 - 5% Acute Tox. 4 (H302) Skin Irrit. 2 : (H315) 01-2119488224- Eye Irrit. 2 - - Iron sulphate; (7782-63-0) 616-510-7 1 - 5% Acute Tox. 4 (H302) Skin Irrit. 2 : (H315) 01-21194202666- 40 10 10 Copper sulphate anhydrous; CuSQ4 (7778-98-7) 231-847-6 (029-004-00-0) 0.1 - 0.3% Acute Tox. 4 (H302) - 01-2119520566- 40 10 10 Manganese sulphate; MNSQ6 (7785-87-7) 232-089-9 0.1 - 0.3% STOT RE 2 (H319) - 01-2119456624- 35 - - Disodium tetraborate pentahydrate 601-808-1 0.1 - 0.3% Repr. 1B - 01-2119490790- 32								
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(12179-04-3)	pentahydrate					32		
	(12179-04-3)							

*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; MnSO4	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	Х	

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	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 contact	Wash 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 me	dical attention and special treatment needed
Note to physicians	Treat symptomatically.

SECTION 5: Firefighting measures ...

5.1. Extinguishing media	
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the 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 Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. **precautions for fire-fighters**

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 conta	inment 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			

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.			

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) LGK (Germany) TRGS 510	2/B 5.1C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Potassium nitrate; KNO3	-	-	-	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; NH4NO3	-	TWA: 10.0 mg/m ³	-	-	-
Iron sulphate;			TWA: 1 mg/m ³		TWA: 1 mg/m ³
FeSO ₄ +7H ₂ O	-	-	STEL: 2 mg/m ³	-	TVVA. T mg/m°
Copper sulphate			STEL. Z mg/m°	TWA: 1 mg/m ³	TWA: 0.02 mg/m ³
anhydrous; CuSO4	-	-	-	TWA: $T \text{ mg/m}^3$ TWA: 0.2 mg/m ³	TWA. 0.02 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: 0.2 mg/m ³	Ceiling: 2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.02 mg/m ³
10111304	1 WA. 0.05 mg/m ³	Cenny. 2 mg/m	STEL: 0.4 mg/m ³	1 WA. 0.05 mg/m	TWA. 0.2 mg/m²
			STEL: 0.4 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
		Ũ	Peak: 1.6 mg/m ³	Ū	J
			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; KNO3	-	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		5	TWA: 0.2 mg/m ³		Ŭ
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; FeSO4+7H2O	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; MnSO₄	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; FeSO4+7H2O	-	TWA: 1 mg/m ³	-	TWA: 1 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Copper sulphate anhydrous; CuSO4	-	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; MnSO4	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/m ³ STEL: 3 mg/m ³

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Manganese sulphate; MnSO4	-	Check 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 (no 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 state	Solid	
Appearance:	Granules	
Color:	Various	
Odor:	Fertilizer.	
Property	Values	Remarks • Method
Melting Point/Freezing Point:	No data available	None 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	
Flash Point:	No data available	None known
Autoignition Temperature:	No data available	None known
Decomposition Temperature:		None known
рН	No data available	None known
pH (as aqueous solution)	No data available	None known
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	No data available	
Density:	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 Not applicable

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

ReactivityNot reactive.10.2. Chemical stabilityStabilityStabilityStable under normal conditions.Specific methods:
Sensitivity to mechanical impact
Sensitivity to static dischargeNot sensitive.
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 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 documentATEmix (oral)35,971.20 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; NH4NO3	= 2217 mg/kg (Rat)	> 5000 mg/kg (Rat)	>0.527 mg/L (Rat)4 h
Potassium nitrate; KNO ₃	= 3015 mg/kg (Rat)	> 5000 mg/kg (Rat)	> 0.527 mg/L (Rat)4 h
Iron sulphate; FeSO4+7H2O	= 1520 mg/kg	-	-
Copper sulphate anhydrous; CuSO4	= 300 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Manganese sulphate; MnSO4	= 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.		
Serious eye damage/eye irritation	No information available.		
Respiratory or skin sensitization	As a precaution the product should be treated as a sensitizer.		
Germ cell mutagenicity	Based on available data, the clas	sification criteria are not met.	
Carcinogenicity	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.		
Reproductive toxicity			
	Based on available data, the clas		
Reproductive toxicity	Based on available data, the clas	sification criteria are not met.	
Reproductive toxicity Chemical	Based on available data, the clas name te pentahydrate	sification criteria are not met. European Union	

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 microorganisms	Crustacea
Co	pper sulphate anhydrous; CuSO4	-	LC50: =0.1mg/L (96h, Oncorhynchus mykiss)	-	EC50: 0.0058 - 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; NH4NO3	-3.1

12.4. Mobility in soil

Mobility in soil no data available.

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; CuSO4	The substance is not PBT / vPvB
Manganese sulphate; MnSO4	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		
<u>14.1</u>		
UN-No:	2071	
<u>14.2</u>		
Proper shipping name:	AMMONIUM NITRATE BASED FERTILIZER	
<u>14.3</u>		
Transport hazard class(es)	9	
14.4		
Packing group:		
14.5		
Marine Pollutant:	Not regulated	
Chemical name	IMDG - Marine Pollutants	
Copper sulphate anhydrous; CuSO4	IMDG regulated marine pollutant (Listed in the index, [Note	
	1], listed under Copper sulphate, anhydrous, hydrates and	
	solution)	
14.6	i	
EmS:	F-H / S-Q	
Special Provisions	186, 193	
14.7		
Bulk transport according Annex II of MARPOL and IBC Cod	e No data available	
ADR		
<u>14.1</u>		
UN-No:	Not regulated	
<u>14.2</u>	-	
Proper shipping name:	Not regulated	

<u>14.3</u>		
Transport hazard class(es) 14.4	Not regulated	
Packing group:	Not regulated	
14.5		
Environmental hazards	Not regulated	
14.6 Special Provisions	None	
ΙΑΤΑ		
<u>14.1</u>		
UN number or ID number	2071	
14.2 Proper chipping name:	AMMONIUM NITRATE BASED FERTILIZER	
Proper shipping name: 14.3_		
Transport hazard class(es)	9	
<u>14.4</u>		
Packing group 14.5	III	
<u>14.5</u> Environmental hazards	Not regulated	
<u>14.6</u>	č	
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 France ICPE

В

Classified installation: article 4702

Germany LGK (Germany) TRGS 510 Gefahrstoffverordnung (Germany) TRGS 511 Water hazard class (WGK)

5.1C B II slightly hazardous to water (WGK 1)

Chemical name	German WGK Section
Ammonium nitrate; NH4NO3	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; FeSO4+7H2O	3
Copper sulphate anhydrous; CuSO ₄	Reg. no. 141, hazard class 3 - highly hazardous to water
Manganese sulphate; MnSO4	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; MnSO4	-	-	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
	Use restricted. See entry 58.	-
Ammonium nitrate; NH4NO3		
	Use restricted. See entry 75.	-
Iron sulphate; FeSO4+7H2O		
	Use restricted. See entry 75.	-
Copper sulphate anhydrous; CuSO4		
	Use restricted. See entry 30.	-
Disodium tetraborate pentahydrate	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	Present (16% by weight of N in relation to AN or higher)
Potassium nitrate; KNO3	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; FeSO4+7H2O	

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	This product complies with USINV
PICCS:	This product does not comply with phil:
Australian Inventory of Chemical	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
- 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) 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, Fundicide, 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

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End of Safety Data Sheet