

# 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 05-Dec-2023

Version: 1.01

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

### 1.1. Product identifier

Product Name	Osmocote N 38-0-5
Product Code	4411-220HA
Unique Formula Identifier (UFI)	2Q6D-5002-Q00N-HC1J
Safety data sheet number	4411-220HA

REACH registration number	Not applicable
Pure substance/mixture	Mixture

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

Recommended Use	Fertilizer (PC12). Restricted to professional users.
Uses Advised Against	Consumer use (SU21)

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

### 1.3. Details of the supplier of the safety data sheet

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

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

Non-Emergency Telephone Number +31 (0) 418655700

### 1.4. Emergency telephone number

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

Europe	112
Austria	+43 1 406 43 43
Belgium	070 245 245
Denmark	+45 8212 1212
Finland	0800 147 111
France	+ 33 (0)1 45 42 59
Ireland	01 809 2566
Netherlands	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]

Serious eye damage/eye irritation	Category 2 - (H319)
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### 2.2. Label elements

**Signal word**

Warning

**Hazard statements**

H319 - Causes serious eye irritation

EUH204 - Contains isocyanates. May produce an allergic reaction

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

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P337 + P313 - If eye irritation persists: Get medical advice/attention

**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)
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub> (7778-80-5)	231-915-5	10 - 25%	Eye Irrit. 2 (H319)	-	01-2119489441-34	-	-
Calcium sulfate anhydrous; CaSO <sub>4</sub> (7778-18-9)	231-900-3	0.1 - 1%	-	-	01-2119444918-26	-	-

\*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
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	6600	2000	No data available
Calcium sulfate anhydrous; CaSO <sub>4</sub>	3000	No data available	3.26

**SECTION 4: First aid measures****4.1. Description of first aid measures**

<b>General advice</b>	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.
<b>Inhalation</b>	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.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	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**

<b>Symptoms</b>	None known.
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**4.3. Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians</b>	Treat symptomatically.
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**SECTION 5: Firefighting measures****5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	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.

<b>Hazardous Combustion Products</b>	Thermal decomposition can lead to release of toxic/corrosive gases and vapors.
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**5.3. Advice for firefighters**

<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Ensure adequate ventilation. Wear protective gloves/clothing and eye/face protection.
<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.
<b>For emergency responders</b>	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

LGK (Germany) TRGS 510 8B

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

**Exposure Limits** \*\*\*

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	-	-	-	TWA: 10.0 mg/m <sup>3</sup>	-
Calcium sulfate anhydrous; CaSO <sub>4</sub>	-	TWA: 5 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10.0 mg/m <sup>3</sup>	-
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary

Calcium sulfate anhydrous; CaSO <sub>4</sub>	TWA: 10 mg/m <sup>3</sup>	TWA: 6 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3***</sup>	-	TWA: 41.5 mg/m <sup>3</sup>
Chemical name	Italy MDLPS	Latvia	Lithuania	Luxembourg	Netherlands
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	-	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-	-
Calcium sulfate anhydrous; CaSO <sub>4</sub>	-	TWA: 4 mg/m <sup>3</sup>	-	-	-
Chemical name	Norway	Poland	Portugal	Romania	Slovakia
Calcium sulfate anhydrous; CaSO <sub>4</sub>	-	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-	TWA: 4 mg/m <sup>3</sup> TWA: 1.5 mg/m <sup>3</sup>
Chemical name	Slovenia	Spain	Sweden	Switzerland	United Kingdom
Calcium sulfate anhydrous; CaSO <sub>4</sub>	TWA: 6 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-	TWA: 3 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	-

**Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)**

No information available.

**8.2. Exposure controls**

<b>Personal protective equipment</b>	Wear normal, light working clothing
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Hand protection</b>	Nitrile rubber (0.26 mm). Break through time. > 8 h.
<b>Skin and body protection</b>	Lightweight protective clothing.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Environmental exposure controls</b>	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**

<b>Physical state</b>	Solid
<b>Appearance:</b>	Granules
<b>Color:</b>	white, yellow, Brown
<b>Odor:</b>	Fertilizer.

<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
<b>Melting Point/Freezing Point:</b>	No data available	None known
<b>Boiling Point/Range:</b>	No data available	None known
<b>Flammability (solid, gas):</b>	No data available	None known
<b>Flammability Limits in Air:</b>		None known
<b>Upper Flammability Limit:</b>	Not applicable	
<b>Lower Flammability Limit:</b>	Not applicable	
<b>Flash Point:</b>	No data available	None known
<b>Autoignition Temperature:</b>	No data available	None known
<b>Decomposition Temperature:</b>		None known
<b>pH</b>	No data available	None known
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Kinematic Viscosity:</b>	No data available	None known
<b>Dynamic Viscosity:</b>	No data available	None known
<b>Water solubility</b>	No data available	None known

<b>Solubility(ies)</b>	No data available	None known
<b>Partition Coefficient:</b>	No data available	None known
<b>Vapor Pressure:</b>	No data available	None known
<b>Relative density</b>	No data available	None known
<b>Bulk density</b>	779 kg/m <sup>3</sup>	
<b>Density:</b>	No data available	
<b>Vapour density</b>	No data available	None known
<b>Particle characteristics</b>		
<b>Particle Size</b>	No data available	
<b>Particle Size Distribution</b>	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**

**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 derivatives of hexavalent chromium and metal halides. Keep away from flammable products (fuels) like charcoal, wood, flour, soot etc.

**10.6. Hazardous decomposition products**

**Hazardous Decomposition Products** None under normal processing. None under normal use conditions. 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** Causes serious eye damage.

**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

Based on available data, the classification criteria are not met

#### **Acute toxicity**

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

#### **Component Information**

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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	= 6600 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
Calcium sulfate anhydrous; CaSO <sub>4</sub>	> 3000 mg/kg ( Rat )	-	> 3.26 mg/L ( Rat ) 4 h

#### 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 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.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

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

**Endocrine disrupting properties**

## **SECTION 12: Ecological information**

### 12.1. Toxicity

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

#### **Unknown aquatic toxicity**

Contains 6 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	EC50: =2900mg/L (72h, <i>Desmodesmus subspicatus</i> )	LC50: =653mg/L (96h, <i>Lepomis macrochirus</i> ) LC50: =3550mg/L (96h, <i>Lepomis macrochirus</i> ) LC50: 510 - 880mg/L (96h, <i>Pimephales</i> )	-	EC50: =890mg/L (48h, <i>Daphnia magna</i> )

		promelas)		
Calcium sulfate anhydrous; CaSO <sub>4</sub>	-	LC50: =2980mg/L (96h, Lepomis macrochirus) LC50: >1970mg/L (96h, Pimephales promelas)	-	-

**12.2. Persistence and degradability**

**Persistence and Degradability:** No information available.

**12.3. Bioaccumulative potential**

**Bioaccumulation** There is no data for this product.

**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
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	The substance is not PBT / vPvB
Calcium sulfate anhydrous; CaSO <sub>4</sub>	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**

<b>14.1</b>	
<b>UN-No:</b>	Not regulated
<b>14.2</b>	
<b>Proper shipping name:</b>	Not regulated
<b>14.3</b>	
<b>Transport hazard class(es)</b>	Not regulated
<b>14.4</b>	
<b>Packing group:</b>	Not regulated
<b>14.5</b>	
<b>Marine Pollutant:</b>	Not regulated



**14.6****Special Provisions**

None

**14.7****Bulk transport according Annex II of MARPOL and IBC Code** No data available**ADR****14.1****UN-No:**

Not regulated

**14.2****Proper shipping name:**

Not regulated

**14.3****Transport hazard class(es)**

Not regulated

**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**

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

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Denmark****France**

ICPE

Not regulated

**Germany**

LGK (Germany) TRGS 510

8B

Gefahrstoffverordnung (Germany) TRGS 511

Not regulated

Water hazard class (WGK)

non-hazardous to water (nwg)

Chemical name	German WGK Section
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	Reg. no. 255, hazard class 1 - slightly hazardous to water
Calcium sulfate anhydrous; CaSO <sub>4</sub>	Reg. no. 325, hazard class 1 - slightly hazardous to water

**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 does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

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

Not regulated

#### Persistent Organic Pollutants

Not applicable

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

Not applicable

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

#### International Inventories:

##### TSCA

This product complies with USINV

##### PICCS:

This product does not comply with phil:

##### Australian Inventory of Chemical Substances

This product does not comply with AICS

#### Legend:

**DSL/NDL** - 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

H319 - Causes serious eye irritation

#### 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

<i>Classification according to Regulation (EC) No. 1272/2008 [CLP]</i>	<i>Method Used</i>
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) (AELG(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** 05-Dec-2023

**Restrictions on use** Restricted to professional users.

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

**Disclaimer**

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**End of Safety Data Sheet**