



Safety Data Sheet

Issue Date: no data available

Revision Date: 26-Oct-2016

Version: 1

1. IDENTIFICATION

Product Identifier:

Product Name: Osmocote® Blend 19-6-9; 5-6M
Product Number(s): A99400
Formula No.: S16441

Recommended Use of the Chemical and Restrictions on Use:

24-HOUR EMERGENCY TELEPHONE NUMBERS:

CHEMTREC (U.S.): 1-800-424-9300
CHEMTREC (International): 1-703-527-3887
Non-Emergency Calls: 1-800-492-8255

2. HAZARD(S) IDENTIFICATION

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Label Elements:

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance: Granules

Physical State: Solid

Odor: Fertilizer

Hazards Not Otherwise Classified (HNOC):

Not Applicable

Other Information:

Causes mild skin irritation Very toxic to aquatic life with long lasting effects Very toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS-No	Weight %	Trade Secret
Ammonium Nitrate; NH ₄ NO ₃	6484-52-2	20-30	*
Ferrous Sulfate Monohydrate (Iron Sulfate)	17375-41-6	1-5	*
Sulphur; S	7704-34-9	1-5	*
Iron-(III)-Sulfate (U.S.)	10028-22-5	1-5	*
Copper sulfate pentahydrate; CuSO ₄ +5H ₂ O	7758-99-8	<1	*
Zinc sulphate mono hydrate; ZnSO ₄ +1H ₂ O	7446-19-7	<1	*

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

4. FIRST-AID MEASURES

First Aid Measures:

Eye Contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Indication of Any Immediate Medical Attention and Special Treatment Needed:

Notes to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Unsuitable extinguishing media: High volume water jet.

Specific hazards: No information available.

Explosion Data:

Sensitivity to Mechanical Impact:
no data available.
Sensitivity to Static Discharge:
no data available.

Special Protective Equipment for Firefighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Personal Precautions: Wear personal protective equipment.

Methods and Material for Containment and Cleanup:

Methods for containment: Control spill with dykes and absorb with inert absorbant material.
Methods for Cleanup: Pick up and transfer to properly labelled containers.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Handling: Avoid container breakage.

Conditions for Safe Storage, Including any Incompatibilities:

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Exposure Limits

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

Ingredients	ACGIH TLV	OSHA:	IDLH:
Ammonium Nitrate; NH ₄ NO ₃ 6484-52-2	-	N.A.	-
Copper sulfate pentahydrate; CuSO ₄ +5H ₂ O 7758-99-8	-	-	100 mg/m ³ IDLH Cu

Appropriate Engineering Controls:

Engineering Controls Showers
 Eyewash stations
 Ventilation systems.

Individual Protection Measures, Such as Personal Protective Equipment:

Eye/face Protection No special protective equipment required.

Skin and body protection No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties:

Physical State: Solid
Odor: Fertilizer **Odor Threshold:** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks: • Method</u>
pH:	No information available	
Melting Point/Freezing Point:	No information available	
Boiling Point/Range:	No information available	
Flash Point:	No information available	
Evaporation Rate:	No information available	
Flammability (solid, gas):	No information available	
Flammability Limits in Air:		
Upper Flammability Limit:	No information available	
Lower Flammability Limit:	No information available	
Vapor Pressure:	No information available	
Vapor Density:	No information available	
Specific Gravity:	No information available	
Solubility:	No information available	
Solubility in other Solvents:	No information available	
Partition Coefficient:	No information available	
Autoignition Temperature:	No information available	
Decomposition Temperature:	No information available	
Kinematic Viscosity:	No information available	
Dynamic Viscosity:	No information available	
Explosive Properties:	No information available	
Oxidizing Properties:	No information available	

Other Information:

Softening Point: No information available
Molecular Weight: No information available
VOC Content (%): No information available
Density: No information available
Bulk density: No information available

10. STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions

Chemically Stable: yes.

Conditions to Avoid: Extreme heat.

Materials to avoid Nitrogen oxides (NOx).

Hazardous Decomposition Products: No information available.

Possibility of Hazardous Reactions: None under normal processing.

11. TOXICOLOGICAL INFORMATION

Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

Product Information

Inhalation Specific test data for the substance or mixture is not available.
Eye contact Specific test data for the substance or mixture is not available.
Skin Contact Specific test data for the substance or mixture is not available.
Ingestion Specific test data for the substance or mixture is not available.

Information on Toxicological Effects:

Symptoms No information available.

Numerical Measures of Toxicity

Acute Toxicity

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

Oral LD50 7,103.00 mg/kg
Dermal LD50 89,447.86 mg/kg

Unknown Acute Toxicity: No information available

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium Nitrate; NH ₄ NO ₃ 6484-52-2	= 2217 mg/kg (Rat)	-	> 88.8 mg/L (Rat) 4 h
Sulphur; S 7704-34-9	> 3000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 9.23 mg/L (Rat) 4 h
Iron-(III)-Sulfate (U.S.) 10028-22-5	= 500 mg/kg (Rat)	-	-
Copper sulfate pentahydrate; CuSO ₄ +5H ₂ O	= 960 mg/kg (Rat) = 300 mg/kg (Rat)	> 2 g/kg (Rat)	-

7758-99-8			
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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	No information available.
Germ Cell Mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive Toxicity	No information available.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.
Aspiration Hazard	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity The environmental impact of this product has not been fully investigated.

Ingredients	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Ammonium Nitrate; NH ₄ NO ₃ 6484-52-2	-	65 - 85: 48 h Cyprinus carpio mg/L LC50 semi-static	-	-
Sulphur; S 7704-34-9	-	866: 96 h Brachydanio rerio mg/L LC50 static 14: 96 h Lepomis macrochirus mg/L LC50 static 180: 96 h Oncorhynchus mykiss mg/L LC50 static	-	-
Iron-(III)-Sulfate (U.S.) 10028-22-5	-	37.2: 96 h Gambusia affinis mg/L LC50 static	-	-
Copper sulfate pentahydrate; CuSO ₄ +5H ₂ O 7758-99-8	-	0.66 - 1.15: 96 h Lepomis macrochirus mg/L LC50 semi-static 0.96 - 1.8: 96 h Lepomis macrochirus mg/L LC50 static 0.1478 - 0.165: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.09 - 0.19: 96 h Oncorhynchus mykiss mg/L LC50 static 0.6752: 96 h Pimephales promelas mg/L LC50 static	-	0.147 - 0.227: 48 h Daphnia magna mg/L EC50 Static

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Ingredients	LOGPOW
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Ammonium Nitrate; NH ₄ NO ₃ 6484-52-2	-3.1
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Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging: Do not reuse container.

14. TRANSPORT INFORMATION

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

DOT (Land)	Not regulated
DOT (AIR)	Not regulated
DOT (Vessel)	Not regulated
IATA (Air)	Not regulated
IMO/IMDG (Vessel)	Not regulated

15. REGULATORY INFORMATION

Federal Regulations:

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories:

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act):

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Ingredients	CWA - Reportable Quantities	CWA - Toxic Pollutants	Clean Water Act - Priority Pollutants	Clean Water Act - Hazardous Substances
Iron-(III)-Sulfate (U.S.) 10028-22-5	-	-	-	Present

CERCLA:

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and

Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Ingredients	CERCLA/SARA 313	CERCLA/SARA RQ
Ammonium Nitrate; NH ₄ NO ₃ 6484-52-2	Not listed	-
Iron-(III)-Sulfate (U.S.) 10028-22-5	1000 lb final RQ 454 kg final RQ	-
Copper sulfate pentahydrate; CuSO ₄ +5H ₂ O 7758-99-8	10 lb final RQ 4.54 kg final RQ	-
Zinc sulphate mono hydrate; ZnSO ₄ +1H ₂ O 7446-19-7	1000 lb final RQ 454 kg final RQ	-

State Regulations (RTK):

California Proposition 65:

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations:

U.S. EPA Label information:

EPA Pesticide Registration Number: Not Applicable

16. OTHER INFORMATION

NFPA:	Health: 2	Flammability: 0	Reactivity: 0
HMIS:	Health: ---	Flammability: ---	Reactivity: ---

Revision Date: 26-Oct-2016

Revision Note:

Reason for revision: None

Disclaimer

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End of Safety Data Sheet