Safety Data Sheet



Issue Date: no data available Revision Date: 08-Sep-2014 Version: 1.02

1. IDENTIFICATION

Product Identifier:

Product Name: Osmocote® Pro 20-4-8, 8-9 Month

Product Number(s): G90170 **Formula No.:** S14375

Recommended Use of the Chemical and Restrictions on Use:

Description:

Controlled Release Fertilizer

Company: 24-HOUR EMERGENCY TELEPHONE NUMBERS:

 Everris NA Inc.
 CHEMTREC (U.S.): 1-800-424-9300

 P.O. Box 3310
 CHEMTREC (International): 1-703-527-3887

 Dublin, OH 43016
 Non-Emergency Calls: 1-800-492-8255

2. HAZARD(S) IDENTIFICATION

OSHA Regulatory Status: This chemical is not considered hazardous by the 2012 OSHA Hazard Communication

Standard (29 CFR 1910.122)

Not Hazardous: Not a dangerous substance or mixture according to the Globally Harmonized System

(GHS)

Label Elements:

Emergency Overview

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

Appearance: granulate Physical State: Solid Odor: Fertilizer

Hazards Not Otherwise Classified (HNOC):

Other Information:

• Causes mild skin irritation

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS-No	Weight %	Trade Secret
Ammonium Nitrate; NH4NO3	6484-52-2	30-60	*
Potassium sulphate; K2SO4	7778-80-5	10-30	*
Coating	PROPRIETARY	5-10	*
Di ammonium phosphate; (NH4)2HPO4	7783-28-0	1-5	*

Sulphur; S	7704-34-9	1-5	*
Iron Oxide; Fe2O3	1309-37-1	1-5	*
Iron sulphate; FeSO4+1H2O	7720-78-7	0.1-1	*
Zinc Sulfate anh; ZnSO4	7733-02-0	0.1-1	*
Zinc oxide; ZnO	1314-13-2	0.1-1	*

^{*} 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

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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, preferabley 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 be 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

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical, chemical foam.

Specific hazards: Dust clouds may be explosive.

Hazardous Combustion Products: Combustion can produce toxic fumes and irritating gases.

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.

Environmental Precautions: Prevent product from entering drains.

Methods and Material for Containment and Cleanup:

Methods for containment: Methods for Cleanup:

Use good housekeeping practices. Clean up promptly by sweeping or vacuum. If material is uncontaminated, collect and reuse as recommended for product.

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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 Guidelines:

Ingredients	CAS-No	ACGIH:	OSHA:	IDLH:
Ammonium Nitrate; NH4NO3	6484-52-2	N.A.	N.A.	Not Listed
Potassium sulphate; K2SO4	7778-80-5	Not Listed	Not Listed	Not Listed
Coating	PROPRIETARY	Not Listed	Not Listed	Not Listed
Di ammonium phosphate; (NH4)2HPO4	7783-28-0	Not Listed	Not Listed	Not Listed
Sulphur; S	7704-34-9	Not Listed	Not Listed	Not Listed
Iron Oxide; Fe2O3	1309-37-1	5 mg/m³ TWA	10 mg/m³ TWA 15 mg/m³ TWA Rouge 5 mg/m³ TWA Rouge	2500 mg/m³ IDLH Fe
Iron sulphate; FeSO4+1H2O	7720-78-7	1 mg/m³ TWA	Not Listed	Not Listed
Zinc Sulfate anh; ZnSO4	7733-02-0	Not Listed	Not Listed	Not Listed
Zinc oxide; ZnO	1314-13-2	2 mg/m³ TWA	5 mg/m³ TWA 15 mg/m³ TWA	500 mg/m³ IDLH

Appropriate Engineering Controls:

Engineering Measures to Reduce

Exposure:

Use adequate ventilation to keep the airborne concentrations of this material below the

recommended exposure standard.

Individual Protection Measures, Such as Personal Protective Equipment:

Eye/Face Protection: Eye/face protection is not required, but is recommended in manufacturing situations where

contact may occur. Safety glasses.

Skin and Body Protection: Wear suitable protective clothing if contact is anticipated during manufacturing. impervious

gloves.

Respiratory Protection: When airborne exposure guidelines and/or comfort levels may be exceeded, use an

approved air-purifying respirator.

General hygiene considerations: Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical and Chemical Properties:

Physical State: Solid

Color: Multi-colored Appearance: granulate

Odor: Fertilizer Odor No information available

Threshold:

Remarks: • Method

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Property Values

PH:

Mo information available
No information available
Plammability (solid, gas):

No information available
No information available

Flammability Limits in Air:

No information available **Upper Flammability Limit: 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 No information available **Dynamic Viscosity: Explosive Properties:** No information available **Oxidizing Properties:** Not considered an oxidizer

Other Information:

Softening Point:

Molecular Weight:

VOC Content (%):

Density:

No information available

No information available

No information available

Bulk density: 60-65 lbs/cu.ft.

10. STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions

Chemically Stable: yes.

Conditions to Avoid: Damp or wet conditions. Extreme heat.

Materials to avoid Oxidizing agent.

Hazardous DecompositionToxic fumes and gases may be generated. Metal oxides possible.

Products:

Possibility of Hazardous Reactions: Poses little or no immediate hazard.

11. TOXICOLOGICAL INFORMATION

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

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Eye effects: Contact with eyes may cause irritation

Skin effects: May cause skin irritation

Ingestion: Health injuries are not known or expected under normal use.

Inhalation: Health injuries are not known or expected under normal use.

Component Information:

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium Nitrate; NH4NO3 6484-52-2	= 2217 mg/kg (Rat)	-	> 88.8 mg/L (Rat)4 h
Potassium sulphate; K2SO4 7778-80-5	= 6600 mg/kg (Rat)	-	-
Di ammonium phosphate; NH4)2HPO4 7783-28-0	= 6500 mg/kg (Rat)	> 7950 mg/kg(Rabbit)	-
Sulphur; S 7704-34-9	> 3000 mg/kg (Rat)	> 2000 mg/kg(Rabbit)	> 9.23 mg/L (Rat)4 h
ron Oxide; Fe2O3 1309-37-1	> 10000 mg/kg (Rat)	-	-
ron sulphate; FeSO4+1H2O 7720-78-7	= 500 mg/kg (Rat)	-	-
Zinc Sulfate anh; ZnSO4 7733-02-0	= 500 mg/kg (Rat)	-	-
Zinc oxide; ZnO 1314-13-2	> 5000 mg/kg (Rat)	-	-

Information on Toxicological Effects:

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

Mutagenic effects No information available.

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.

Ingredients	ACGIH - Carcinogens	IARC:	NTP Report on Carcinogens List -	OSHA
Iron Oxide; Fe2O3 1309-37-1	A4	3	-	-

Reproductive Toxicity
STOT - Single Exposure
STOT - Repeated Exposure
Aspiration Hazard
No information available.
No information available.
No information available.

Numerical Measures of Toxicity - Product Information:

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

ATEmix (oral): 60775 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Unknown Aquatic Toxicity: 0% of the mixture consists of components(s) of unknown hazards to the aquatic

environment

Ecotoxicity effects: No data is available on the product itself.

Persistence and degradability: Not rapidly degradable.

Ingredients	LOGPOW	

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Ammonium Nitrate; NH4NO3	-3.1
6484-52-2	

Mobility: Slightly water contaminating.

Additional ecological information: Do not apply directly to lakes, streams, or ponds.

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 DOT regulated

DOT (AIR) UN2071, Ammonium Nitrate Based Fertilizer, 9, PGIII

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 hazardNoChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

CWA (Clean Water Act):

This product contains the following substances which are regulated 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 sulphate; FeSO4+1H2O 7720-78-7	-	-	-	Present
Zinc Sulfate anh; ZnSO4 7733-02-0	-	-	-	Present

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CERCLA:

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Ingredients	CERCLA/SARA 313	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ammonium Nitrate; NH4NO3 6484-52-2	Not listed	-	
Iron sulphate; FeSO4+1H2O 7720-78-7	1000 lb final RQ 454 kg final RQ	-	
Zinc Sulfate anh; ZnSO4 7733-02-0	1000 lb final RQ 454 kg final RQ	-	

State Regulations (RTK):

California Proposition 65:

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

U.S. EPA Label information:

EPA Pesticide Registration Number:

not applicable

16. OTHER INFORMATION

NFPA: Health: 1 Flammability: 0 Reactivity: 1

HMIS: Health: 1 Flammability: 0 Reactivity: 1

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Revision Note:

Reason for revision: None

Disclaimer

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End of Safety Data Sheet