# Safety Data Sheet

Issue Date: 26-Dec-2014 Revision Date: 04-Apr-2017 Version 1

# 1. IDENTIFICATION

**Product Identifier** 

**Product Name AVAIL for Granular Phosphate Fertilizers** 

Other means of identification

SDS# VLS-063-CA

**Product Code** FFN: 04002 **Synonyms** None

Recommended use of the chemical and restrictions on use

Recommended Use Fertilizer

**Uses Advised Against** No information available

Details of the supplier of the safety data sheet

**Initial Supplier Identifier** 

Verdesian Life Sciences, U.S., LLC. 1001 Winstead Drive, Suite 480

Cary, NC 27513

**Emergency Telephone Number** 

Initial supplier phone number **Emergency Telephone (24 hr)**  Business Phone: (800) 868-6446 Fax: (919) 535-3652

INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

Appearance Tan to brown liquid Physical state Liquid **Odor** Characteristic

Classification

This chemical does not meet the hazardous criteria set forth by the 2015 WHMIS standards. However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

Other Information

Unknown acute toxicity 12 % of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Mixture</u>

**Chemical Family** Carboxylated polymer.

# 4. FIRST AID MEASURES

**First Aid Measures** 

**General advice** Provide this SDS to medical personnel for treatment.

Eye contact In case of eye contact, remove contact lens and rinse immediately with plenty of water, also

under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical

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advice/attention.

**Skin contact** Wash off immediately with plenty of water. Take off contaminated clothing. Wash

contaminated clothing before reuse. If skin irritation persists, call a physician.

Inhalation Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician/poison center

if individual's condition declines or if symptoms persist.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Call a physician immediately.

Most important symptoms and effects

**Symptoms** May cause eye, skin and respiratory tract irritation. Will cause gastrointestinal tract irritation.

Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Water spray. Dry chemical. Carbon dioxide (CO2). Foam.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

Toxic fumes may be given off when material is exposed to fire.

**Explosion Data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective equipment for

fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required.

**Environmental precautions** 

**Environmental precautions** See Section 12 for additional Ecological Information.

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## 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**Keep in suitable, closed containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Wash thoroughly after handling. Use personal protection recommended in Section 8. Avoid

contact with skin, eyes or clothing.

#### Conditions for safe storage, including any incompatibilities

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

Incompatible materials Strong oxidizing agents Strong reducing agents Materials incompatible with water Materials

incompatible with sodium salts

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Limits No exposure limits noted for ingredient(s). The following information is given as general

quidance.

## Appropriate engineering controls

**Engineering controls** Maintain eye wash fountain and quick-drench facilities in work area.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Use chemical safety goggles / face shield.

**Hand protection** Chemical resistant protective gloves.

**Skin and body protection**No special protective equipment required.

**Respiratory protection** Ensure adequate ventilation, especially in confined areas.

General hygiene considerations Avoid contact with skin, eyes and clothing. After handling this product, wash hands before

eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before

reuse.

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance Tan to brown liquid
Color Tan to brown
Odor Characteristic

Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 7.0-8.0

Melting Point/Freezing Point
Boiling Point/Boiling Range
Flash Point
Evaporation Rate
Flammability (Solid, Gas)

-10 °C / 14 °F
Not determined
None
Not determined
n/a-liquid

Flammability Limits in Air

Upper Flammability Limits
Lower Flammability Limit

Vapor Pressure
Vapor Density

Relative Density

Not determined
Not determined
Not determined
1.2-1.4

Water Solubility
Solubility in other solvents
Partition Coefficient
Auto-ignition Temperature
Decomposition Temperature
Kinematic Viscosity
Not determined

**Explosive properties**No information available. **Oxidizing properties**No information available.

Other Information

Softening Point
Molecular weight
VOC Content (%)
Density
No information available

# 10. STABILITY AND REACTIVITY

**Reactivity** Not reactive under normal conditions.

Chemical Stability Stable under normal conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to Avoid Incompatible Materials.

Incompatible Materials Strong oxidizing agents. Strong reducing agents. Materials incompatible with water.

Materials incompatible with sodium salts.

Hazardous Decomposition Products Carbon oxides.

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# 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

**Product Information**To the best of our knowledge, the chemical, physical and toxicological properties of this

material have not been thoroughly investigated

Eye contact Irritating to eyes.

**Skin contact** Irritating to skin.

**Inhalation** May cause irritation to the mucous membranes and upper respiratory tract.

**Ingestion** Can cause gastrointestinal disturbance.

#### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

#### **Numerical measures of toxicity**

**Acute Toxicity** 

**Unknown acute toxicity** 12 % of the mixture consists of ingredient(s) of unknown toxicity

Component Information Not available

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or

potential carcinogens as listed by OSHA, IARC or NTP.

# 12. ECOLOGICAL INFORMATION

Ecotoxicity An environmental hazard cannot be excluded in the event of unprofessional handling or

disposal.

Persistence/Degradability No information available.

**Bioaccumulation** No information available.

Other Adverse Effects No information available.

## 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods**

Waste from residues/unused

products

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

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# 14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances

**DOT** Not regulated

TDG Not regulated

<u>IATA</u> Not regulated

IMDG Not regulated

# 15. REGULATORY INFORMATION

#### **REGULATORY INFORMATION**

#### **International Regulations**

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

**Export Notification requirements** Not applicable

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health Hazards 1 Flammability 0 Instability 0 Special Hazards Not

determined

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HMIS Health Hazards 1 Flammability 0 Physical hazards 0 Personal Protection C

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value
\* Skin designation

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Revision Note: New product.

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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