

# Safety Data Sheet

Issue Date: 10-Jan-1992

Revision Date: 27-Apr-2016

Version 2

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Compac 400

### Other means of identification

**SDS #** FFN: 00056

### Recommended use of the chemical and restrictions on use

**Recommended Use** Soil Nutrient.

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

#### **Supplier Address**

Verdesian Life Sciences, U.S., LLC.  
1001 Winstead Drive, Suite 480  
Cary, NC 27513

### Emergency Telephone Number

**Company Phone Number** Business Phone: (800) 868-6446  
Fax Phone: (919) 535-3652

**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Dark green liquid                      **Physical State** Liquid                      **Odor** Odorless

### Classification

|                                   |            |
|-----------------------------------|------------|
| Skin corrosion/irritation         | Category 2 |
| Serious eye damage/eye irritation | Category 2 |

### Signal Word

Warning

### Hazard Statements

Causes skin irritation  
Causes serious eye irritation



### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection

### Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention  
 IF ON SKIN: Wash with plenty of soap and water  
 Take off contaminated clothing and wash it before reuse  
 If irritation develops or persists seek medical attention

**Other Hazards**

Very toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name           | CAS No    | Weight-%    |
|-------------------------|-----------|-------------|
| Mono-ammonium Phosphate | 7722-76-1 | Proprietary |
| Ammonium hydroxide      | 1336-21-6 | Proprietary |

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

**First Aid Measures**

|                       |   |
|-----------------------|---|
| <b>General Advice</b> | Provide this SDS to medical personnel for treatment.  |
| <b>Eye Contact</b>    | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.                            |
| <b>Skin Contact</b>   | Wash off immediately with plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if irritation develops or persists. |
| <b>Inhalation</b>     | Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician / poison center if individual's condition declines or if symptoms persist.                      |
| <b>Ingestion</b>      | Drink large quantities of water or milk. Do not induce vomiting. Contact a physician.   |

**Most important symptoms and effects**

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | May cause eye, skin and respiratory tract irritation. |
|-----------------|---|

**Indication of any immediate medical attention and special treatment needed**

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Product is not flammable.

**Protective equipment and precautions for firefighters**

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**

|                                  |  |
|----------------------------------|--|
| <b>Personal Precautions</b>      | Ventilate affected area. Wear protective clothing as described in Section 8 of this safety data sheet. |
| <b>Environmental Precautions</b> | See Section 12 for additional Ecological Information.  |

**Methods and material for containment and cleaning up**

|                                |   |
|--------------------------------|---|
| <b>Methods for Containment</b> | Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an inert (i.e. vermiculite, dry sand or earth) absorbent material.   |
| <b>Methods for Clean-Up</b>    | Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. |

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

|                                |   |
|--------------------------------|---|
| <b>Advice on Safe Handling</b> | Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Use personal protection recommended in Section 8. Keep/Store away from clothing/incompatible/combustible materials. Avoid contact with skin, eyes or clothing. |
|--------------------------------|---|

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

|                               |  |
|-------------------------------|--|
| <b>Storage Conditions</b>     | Keep containers tightly closed in a dry, cool and well-ventilated place. |
| <b>Incompatible Materials</b> | Flammable/combustible materials. Strong alkalis.                         |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

|                                   |  |
|-----------------------------------|--|
| <b><u>Exposure Guidelines</u></b> | No exposure limits noted for ingredient(s). The following information is given as general guidance |
|-----------------------------------|--|

**Appropriate engineering controls**

|                             |  |
|-----------------------------|--|
| <b>Engineering Controls</b> | Maintain eye wash fountain and quick-drench facilities in work area. |
|-----------------------------|--|

**Individual protection measures, such as personal protective equipment**

|                                 |  |
|---------------------------------|--|
| <b>Eye/Face Protection</b>      | Use safety goggles, safety glasses with side shields and/or a full face shield as described by OSHA's eye and face protection regulations in 29CFR 1910.133. |
| <b>Skin and Body Protection</b> | Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.                         |
| <b>Respiratory Protection</b>   | Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator.   |

**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.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

|                       |                   |                       |                |
|-----------------------|-------------------|-----------------------|----------------|
| <b>Physical State</b> | Liquid            | <b>Odor</b>           | Odorless       |
| <b>Appearance</b>     | Dark green liquid | <b>Odor Threshold</b> | Not determined |
| <b>Color</b>          | Dark green        |                       |                |

| <u>Property</u>              | <u>Values</u>  | <u>Remarks • Method</u> |
|------------------------------|----------------|-------------------------|
| pH                           | 6.68           |                         |
| Melting Point/Freezing Point | Not determined |                         |
| Boiling Point/Boiling Range  | Not determined |                         |
| Flash Point                  | Not determined |                         |
| Evaporation Rate             | Not determined |                         |
| Flammability (Solid, Gas)    | n/a-liquid     |                         |
| Upper Flammability Limits    | Not determined |                         |
| Lower Flammability Limit     | Not determined |                         |
| Vapor Pressure               | Not determined |                         |
| Vapor Density                | Not determined |                         |
| Specific Gravity             | 1.28           |                         |
| Water Solubility             | Not determined |                         |
| Solubility in other solvents | Not determined |                         |
| Partition Coefficient        | Not determined |                         |
| Auto-ignition Temperature    | Not determined |                         |
| Decomposition Temperature    | Not determined |                         |
| Kinematic Viscosity          | Not determined |                         |
| Dynamic Viscosity            | Not determined |                         |
| Explosive Properties         | Not determined |                         |
| Oxidizing Properties         | Not determined |                         |

**10. STABILITY AND REACTIVITY**

**Reactivity**

Not reactive under normal conditions.

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to Avoid**

Incompatible Materials.

**Incompatible Materials**

Flammable/combustible materials. Strong alkalis.

**Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

|                            |  |
|----------------------------|--|
| <b>Product Information</b> | To the best of our knowledge, the chemical, physical and toxicological properties of this material have not been thoroughly investigated |
| <b>Eye Contact</b>         | Causes eye irritation.   |
| <b>Skin Contact</b>        | Causes skin irritation.  |
| <b>Inhalation</b>          | Avoid breathing vapors or mists.   |
| <b>Ingestion</b>           | Ingestion may cause irritation to mucous membranes.  |

### Component Information

| Chemical Name                        | Oral LD50            | Dermal LD50             | Inhalation LC50 |
|--------------------------------------|----------------------|-------------------------|-----------------|
| Mono-ammonium Phosphate<br>7722-76-1 | = 5750 mg/kg ( Rat ) | > 7940 mg/kg ( Rabbit ) | -               |
| Ammonium hydroxide<br>1336-21-6      | = 350 mg/kg ( Rat )  | -                       | -               |

### Information on physical, chemical and toxicological effects

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

### 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.

### Numerical measures of toxicity

Not determined

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

### Component Information

| Chemical Name                   | Algae/aquatic plants | Fish                                    | Toxicity to microorganisms | Crustacea   |
|---------------------------------|----------------------|---|----------------------------|---|
| Ammonium hydroxide<br>1336-21-6 |                      | 8.2: 96 h Pimephales promelas mg/L LC50 |                            | 0.66: 48 h water flea mg/L EC50<br>0.66: 48 h Daphnia pulex mg/L EC50 |

### Persistence/Degradability

Not determined.

### Bioaccumulation

Not determined.

### Mobility

### Other Adverse Effects

Not determined

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

**California Hazardous Waste Status**

| Chemical Name                   | California Hazardous Waste Status |
|---------------------------------|-----------------------------------|
| Ammonium hydroxide<br>1336-21-6 | Toxic<br>Corrosive                |

**14. TRANSPORT INFORMATION**

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Not regulated

**IATA** Not regulated

**IMDG**  
**Marine Pollutant** This material may meet the definition of a marine pollutant

**15. REGULATORY INFORMATION**

**International Inventories**

| Chemical Name           | TSCA    | DSL | NDSL | EINECS  | ELINCS | ENCS    | IECSC | KECL    | PICCS | AICS |
|-------------------------|---------|-----|------|---------|--------|---------|-------|---------|-------|------|
| Mono-ammonium Phosphate | Present | X   |      | Present |        | Present | X     | Present | X     | X    |
| Ammonium hydroxide      | Present | X   |      | Present |        | Present | X     | Present | X     | X    |

**Legend:**

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- 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*

**US Federal Regulations**

**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)

| Chemical Name                   | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                  |
|---------------------------------|--------------------------|----------------|---|
| Ammonium hydroxide<br>1336-21-6 | 1000 lb                  |                | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | No  |
| Fire Hazard                       | No  |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | No  |

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name                       | CAS No    | Weight-%    | SARA 313 - Threshold Values % |
|-------------------------------------|-----------|-------------|-------------------------------|
| Mono-ammonium Phosphate - 7722-76-1 | 7722-76-1 | Proprietary | 1.0                           |
| Ammonium hydroxide - 1336-21-6      | 1336-21-6 | Proprietary | 1.0                           |

**CWA (Clean Water Act)**

| Chemical Name      | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Ammonium hydroxide | 1000 lb                     |                        |                           | X                          |

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

| Chemical Name                   | New Jersey | Massachusetts | Pennsylvania |
|---------------------------------|------------|---------------|--------------|
| Ammonium hydroxide<br>1336-21-6 | X          | X             | X            |

**16. OTHER INFORMATION**

|             |                       |                     |                         |                            |
|-------------|-----------------------|---------------------|-------------------------|----------------------------|
| <b>NFPA</b> | <b>Health Hazards</b> | <b>Flammability</b> | <b>Instability</b>      | <b>Special Hazards</b>     |
|             | 1                     | 0                   | 0                       | Not determined             |
| <b>HMIS</b> | <b>Health Hazards</b> | <b>Flammability</b> | <b>Physical Hazards</b> | <b>Personal Protection</b> |
|             | 1                     | 0                   | 0                       | Not determined             |

Issue Date: 10-Jan-1992  
Revision Date: 27-Apr-2016  
Revision Note: Address Change

**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**