

# Safety Data Sheet

Issue Date: 04-May-2015

Revision Date: 27-Apr-2016

Version 2

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Intracept

### Other means of identification

**SDS #** FFN: 00442

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

**Recommended Use** Plant Nutrients.

### 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 brown liquid                      **Physical State** Liquid                      **Odor** Sweet

### Classification

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

### Signal Word

**Warning**

### Hazard Statements

Causes serious eye irritation



### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Wear eye/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

### Other Hazards

Harmful to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name     | CAS No     | Weight-% |
|-------------------|------------|----------|
| Citric Acid       | 77-92-9    | 1-10     |
| Magnesium sulfate | 10034-99-8 | 1-5      |
| Copper sulfate    | 7758-99-8  | 1-5      |
| Ferrous sulfate   | 7720-78-7  | 1-5      |
| Manganese sulfate | 7758-87-7  | 1-5      |
| Zinc sulfate      | 7446-19-7  | 1-5      |

\*\*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>    | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek immediate medical attention/advice.  |
| <b>Skin Contact</b>   | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.   |
| <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>      | Do not induce vomiting. Induce vomiting only if advised by medical personnel. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. |

#### Most important symptoms and effects

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | May cause discomfort if swallowed. May cause skin and eye irritation. Will cause gastrointestinal 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

None.

**Hazardous Combustion Products** May release toxic oxides of Zinc and Sulfur in a fire.

**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**

- Personal Precautions** Use personal protective equipment as required.
- Environmental Precautions** See Section 12 for additional Ecological Information.

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

- Methods for Containment** Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an absorbent material.
- Methods for Clean-Up** Sweep up and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS.
- Prevention of Secondary Hazards** Spills may present a slipping hazard.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

- Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

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

- Storage Conditions** Keep container tightly closed and store in a cool, dry and well-ventilated place. Protect from direct sunlight. Keep out of the reach of children.
- Incompatible Materials** Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical Name          | ACGIH TLV | OSHA PEL                       | NIOSH IDLH |
|------------------------|-----------|--------------------------------|------------|
| Citric Acid<br>77-92-9 | -         | 15 mg / m <sup>3</sup> (Total) | -          |

**Appropriate engineering controls**

- Engineering Controls** Apply technical measures to comply with the occupational exposure limits. Eyewash stations. Showers.

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

- Eye/Face Protection** Safety goggles.
- Skin and Body Protection** Wear suitable protective clothing.

**Respiratory Protection** In case of inadequate ventilation wear respiratory protection. Wear an appropriate NIOSH/MSHA approved respirator if ventilation is inadequate.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                     |                      |                                |                |
|-------------------------------------|----------------------|--------------------------------|----------------|
| <b>Physical State</b>               | Liquid               | <b>Odor</b>                    | Sweet          |
| <b>Appearance</b>                   | Dark brown liquid    | <b>Odor Threshold</b>          | Not determined |
| <b>Color</b>                        | Dark brown           |                                |                |
| <b><u>Property</u></b>              | <b><u>Values</u></b> | <b><u>Remarks • Method</u></b> |                |
| <b>pH</b>                           | Not applicable       |                                |                |
| <b>Melting Point/Freezing Point</b> | Not applicable       |                                |                |
| <b>Boiling Point/Boiling Range</b>  | 100 °C / 212 °F      |                                |                |
| <b>Flash Point</b>                  | Not applicable       |                                |                |
| <b>Evaporation Rate</b>             | Not applicable       |                                |                |
| <b>Flammability (Solid, Gas)</b>    | Not determined       |                                |                |
| <b>Upper Flammability Limits</b>    | Not determined       |                                |                |
| <b>Lower Flammability Limit</b>     | Not determined       |                                |                |
| <b>Vapor Pressure</b>               | Not determined       |                                |                |
| <b>Vapor Density</b>                | Not determined       |                                |                |
| <b>Specific Gravity</b>             | 1.22                 |                                |                |
| <b>Water Solubility</b>             | Soluble in water     |                                |                |
| <b>Solubility in other solvents</b> | Not determined       |                                |                |
| <b>Partition Coefficient</b>        | Not determined       |                                |                |
| <b>Auto-ignition Temperature</b>    | Not determined       |                                |                |
| <b>Decomposition Temperature</b>    | Not determined       |                                |                |
| <b>Kinematic Viscosity</b>          | Not determined       |                                |                |
| <b>Dynamic Viscosity</b>            | Not determined       |                                |                |
| <b>Explosive Properties</b>         | Not determined       |                                |                |
| <b>Oxidizing Properties</b>         | 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

Keep out of reach of children.

### Incompatible Materials

Strong oxidizing agents.

### Hazardous Decomposition Products

May release toxic oxides of Zinc and Sulfur in a fire.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |                                    |
|---------------------|------------------------------------|
| <b>Eye Contact</b>  | Causes serious eye irritation.     |
| <b>Skin Contact</b> | Avoid contact with skin.           |
| <b>Inhalation</b>   | Avoid breathing vapors or mists.   |
| <b>Ingestion</b>    | May cause discomfort if swallowed. |

### Component Information

| Chemical Name          | Oral LD50            | Dermal LD50 | Inhalation LC50 |
|------------------------|----------------------|-------------|-----------------|
| Citric Acid<br>77-92-9 | = 3000 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

Harmful to aquatic life with long lasting effects.

### Component Information

| Chemical Name          | Algae/aquatic plants | Fish  | Toxicity to microorganisms | Crustacea                         |
|------------------------|----------------------|---|----------------------------|-----------------------------------|
| Citric Acid<br>77-92-9 |                      | 1516: 96 h Lepomis macrochirus mg/L LC50 static |                            | 120: 72 h Daphnia magna mg/L EC50 |

### Persistence/Degradability

Not determined.

### Bioaccumulation

Not determined.

### Mobility

| Chemical Name          | Partition Coefficient |
|------------------------|-----------------------|
| Citric Acid<br>77-92-9 | -1.72                 |

### 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 |
|---------------------------|-----------------------------------|
| Zinc sulfate<br>7446-19-7 | Toxic                             |

### 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 |
|---------------|---------|-----|------|---------|--------|---------|-------|---------|-------|------|
| Citric Acid   | Present | X   |      | Present |        | Present | X     | Present | X     | X    |
| Zinc sulfate  |         | X   |      |         |        |         | X     |         | 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

#### **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 % |
|--------------------------|-----------|----------|-------------------------------|
| Zinc sulfate - 7446-19-7 | 7446-19-7 | 1-5      | 1.0                           |

**CWA (Clean Water Act)**

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Zinc sulfate  |                             | 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 |
|---------------------------|------------|---------------|--------------|
| Zinc sulfate<br>7446-19-7 | X          |               | X            |

|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

**NFPA****Health Hazards**

Not determined

**Flammability**

Not determined

**Instability**

Not determined

**Special Hazards**

Not determined

**HMIS****Health Hazards**

Not determined

**Flammability**

Not determined

**Physical Hazards**

Not determined

**Personal Protection**

Not determined

**Issue Date:**

04-May-2015

**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**