# Best Evergreen 18-5-0 Minis +5% Iron with 0.40% Barricade

**Safety Data Sheet**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>Best Evergreen 18-5-0 Minis +5% Iron with 0.40% Barricade</td>
</tr>
<tr>
<td>Product code</td>
<td>M74347</td>
</tr>
</tbody>
</table>

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

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

JR Simplot Company  
Boise, ID 83707  
T 1-208-330-2110

### 1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (GHS-US)**  
Eye Irrit. 2B  H320  
STOT SE 3  H335

Full text of H-phrases: see section 16

### 2.2. Label elements

**GHS-US labeling**

Hazard pictograms (GHS-US) : ![Warning](https://example.com/)

- Signal word (GHS-US) : Warning
- Hazard statements (GHS-US) :  
  - H320 - Causes eye irritation
  - H335 - May cause respiratory irritation
- Precautionary statements (GHS-US) :  
  - P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
  - P264 - Wash ... thoroughly after handling
  - P271 - Use only outdoors or in a well-ventilated area
  - P304-P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
  - P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
  - P312 - Call a poison center/doctor/… if you feel unwell
  - P337+P313 - If eye irritation persists: Get medical advice/attention
  - P403+P333 - Store in a well-ventilated place. Keep container tightly closed
  - P405 - Store locked up
  - P501 - Dispose of contents/container to ...

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture
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<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ammonium sulfate</td>
<td>(CAS No) 7783-20-2</td>
<td></td>
<td>Eye Irrit. 2B, H320 STOT SE 3, H335</td>
</tr>
<tr>
<td>Monoammonium Phosphate</td>
<td>(CAS No) 7722-78-1</td>
<td></td>
<td>Eye Irrit. 2B, H320 STOT SE 3, H335</td>
</tr>
<tr>
<td>Iron Oxy sulfite</td>
<td></td>
<td></td>
<td>Eye Irrit. 2B, H320</td>
</tr>
<tr>
<td>Sand</td>
<td></td>
<td></td>
<td>STOT SE 3, H335</td>
</tr>
<tr>
<td>Pro di amine</td>
<td>(CAS No) 29091-21-2</td>
<td></td>
<td>Acute Tox. 4 (Inhalation:dust,mist), H332</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.
SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep only in the original container in a cool, well ventilated place away from direct sunlight. Keep container closed when not in use.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or safety glasses.

Respiratory protection: Wear appropriate mask.

Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid

Appearance: Yellowish-grey granules.

Color: Yellowish-grey

Odor: Odorless

Odor threshold: No data available

pH: No data available

Relative evaporation rate (butyl acetate=1): No data available

Melting point: No data available

Freezing point: No data available

Boiling point: No data available

Flash point: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Flammability (solid, gas): No data available

Vapor pressure: No data available

Relative vapor density at 20 °C: No data available

Relative density: No data available

Solubility: Soluble.

Water: Solubility in water of component(s) of the mixture:

• 77 g/100ml
• 38 g/100ml

Log Pow: No data available

Log Kow: No data available

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Explosive limits: No data available
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<table>
<thead>
<tr>
<th>9.2. Other information</th>
<th>No additional information available</th>
</tr>
</thead>
</table>

**SECTION 10: Stability and reactivity**

<table>
<thead>
<tr>
<th>10.1. Reactivity</th>
<th>No additional information available</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.2. Chemical stability</td>
<td>Not established.</td>
</tr>
<tr>
<td>10.3. Possibility of hazardous reactions</td>
<td>Not established.</td>
</tr>
<tr>
<td>10.4. Conditions to avoid</td>
<td>Direct sunlight. Extremely high or low temperatures.</td>
</tr>
<tr>
<td>10.5. Incompatible materials</td>
<td>Strong acids. Strong bases.</td>
</tr>
</tbody>
</table>

**SECTION 11: Toxicological information**

<table>
<thead>
<tr>
<th>11.1. Information on toxicological effects</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

### Prodiamine (29091-21-2)

| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | 1.81 mg/l/4h |
| ATE US (vapors) | 1.81000000 mg/l/4h |
| ATE US (dust, mist) | 1.81000000 mg/l/4h |

### Ammonium Sulfate (7783-20-2)

| LD50 oral rat | 2840 mg/kg (Rat) |
| LD50 dermal rat | > 2000 mg/kg |
| ATE US (oral) | 2840.00000000 mg/kg body weight |

### Monoammonium Phosphate (7722-76-1)

| LD50 oral rat | 5750 mg/kg (Rat) |
| LD50 dermal rat | > mg/kg |
| LD50 dermal rabbit | > 7940 mg/kg (Rabbit) |
| ATE US (oral) | 5750.00000000 mg/kg body weight |

| Skin corrosion/irritation | Not classified |
| Serious eye damage/irritation | Causes eye irritation. |
| Respiratory or skin sensitization | Not classified |
| Germ cell mutagenicity | Not classified |

- Based on available data, the classification criteria are not met

| Carcinogenicity | Not classified |
| Reproductive toxicity | Not classified |

- Based on available data, the classification criteria are not met

| Specific target organ toxicity (single exposure) | May cause respiratory irritation. |
| Specific target organ toxicity (repeated exposure) | Not classified |

- Based on available data, the classification criteria are not met

| Aspiration hazard | Not classified |

- Based on available data, the classification criteria are not met
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Potential Adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

This product has low solubility in water. At the limits of solubility, this product is not toxic to fish. However at concentrations above the level of water solubility, it may be toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment washwaters.

12.1. Toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ammonium sulfate (7783-20-2)</td>
<td>LC50 fish 1</td>
<td>126 mg/l (96 h; Poecilia reticulata)</td>
</tr>
<tr>
<td></td>
<td>EC50 Daphnia 1</td>
<td>202 mg/l (96 h; Daphnia magna)</td>
</tr>
<tr>
<td></td>
<td>LC50 fish 2</td>
<td>250 - 480 mg/l (96 h; Brachydanio rerio)</td>
</tr>
<tr>
<td></td>
<td>EC50 Daphnia 2</td>
<td>433 mg/l (50 h; Daphnia magna)</td>
</tr>
<tr>
<td></td>
<td>TLM fish 1</td>
<td>1290 ppm (96 h; Gambusia affinis)</td>
</tr>
<tr>
<td>Monoammonium Phosphate (7722-76-1)</td>
<td>LC50 fish 1</td>
<td>155 ppm (96 h; Pimephales promelas)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

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Persistence and degradability: Not established.

Prodiamine (29091-21-2)

Persistence and degradability: Not established.

ammonium sulfate (7783-20-2)

Persistence and degradability: Biodegradability in water: no data available. Not established.

Monoammonium Phosphate (7722-76-1)

Persistence and degradability: Biodegradability in water: no data available. Not established.

Iron Oxysulfate

Persistence and degradability: Not established.

Sand

Persistence and degradability: Not established.

12.3. Bioaccumulative potential

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Bioaccumulative potential: Not established.

Prodiamine (29091-21-2)

Bioaccumulative potential: Not established.

ammonium sulfate (7783-20-2)

Log Pow: -5.1

Bioaccumulative potential: Bioaccumulation: not applicable. Not established.

Monoammonium Phosphate (7722-76-1)

Bioaccumulative potential: Not bioaccumulative. Not established.

Iron Oxysulfate

Bioaccumulative potential: Not established.

Sand

Bioaccumulative potential: Not established.

12.4. Mobility in soil

No additional information available.

12.5. Other adverse effects

Effect on ozone layer: No additional information available.
Effect on the global warming: No known ecological damage caused by this product.

Other information: Avoid release to the environment.

SECTION 13: Disposal considerations
Do not contaminate water, food or feed by storage or disposal.

Storage: Store in original container away from other fertilizer, feed, or foodstuffs and separated from other pesticides.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Offer for recycling, if available. If product is spilled sweep up and use as per label instructions or dispose of as indicated above.

13.1. Waste treatment methods
Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information
In accordance with DOT
Not regulated for transport

Additional information
Other information: No supplementary information available.

ADR
Transport document description:

Transport by sea
No additional information available

Air transport
No additional information available

SECTION 15: Regulatory information
This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION: Causes moderate eye injury (irritation). Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Prolonged or frequent repeated skin contact while handling the material may cause allergic reaction in some individuals.

15.1. US Federal regulations
All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory except for:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>Concentration (C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prodiamine</td>
<td>29091-21-2</td>
<td>0.40%</td>
</tr>
<tr>
<td>Iron Oxysulfate</td>
<td>CAS No</td>
<td>C&gt;=6.00%; C&lt;=10.00%</td>
</tr>
<tr>
<td>Sand</td>
<td>CAS No</td>
<td>C&gt;=5.00%; C&lt;=9.00%</td>
</tr>
</tbody>
</table>

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations
CANADA
No additional information available

EU-Regulations
No additional information available
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**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

### SECTION 16: Other information

Data sources


Other information

None.

Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Inhalation:dust,mist)</th>
<th>Acute toxicity (inhalation:dust,mist) Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2B</td>
<td>Serious eye damage/eye irritation Category 2B</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H320</td>
<td>Causes eye irritation</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)

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