CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Formulator’s Name: Covington Corporation
Oklahoma City, OK
(405) 676-1575

EMERGENCY TELEPHONE NO.:
DAYS: (405) 676-1575
24 Hour Emergency HAZMAT Response: (800) 424-9300
EPA National Response Center: (800) 424-9300

PRODUCT NAME: 3-18-18 FERTILIZER SOLUTION AKA/POWER GROW
CHEMICAL NAME: Inorganic/Organic Chemical Fertilizer Mixture N-P-K
CHEMICAL FAMILY: Mixed liquid blende fertilizer
EPA REG. NO.: not applicable

COMPOSITION, INFORMATION ON INGREDIENTS (Note: see product tag or label for specific ingredients)

<table>
<thead>
<tr>
<th>Chemical Ingredients</th>
<th>Percentage by Weight:</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Nitrogen (N)</td>
<td>3.00</td>
<td>Mixture</td>
</tr>
<tr>
<td>Available Phosphate (P₂O₅)</td>
<td>18.00</td>
<td>Mixture</td>
</tr>
<tr>
<td>Soluble Potash (K₂O)</td>
<td>18.00</td>
<td>Mixture</td>
</tr>
<tr>
<td>Fertilizer salts and inert ingredients</td>
<td>61.00</td>
<td></td>
</tr>
</tbody>
</table>

HAZARDS IDENTIFICATION SUMMARY

CAUTION: KEEP OUT OF REACH OF CHILDREN
This product is a water clear liquid with fertilizer-like odor. Primary routes of entry are Inhalation, eye contact and skin contact.

FIRST AID MEASURES

Eyes: Flush eyes with large amount of water for at least 15 minutes. Consult a physician if irritation persists.
Skin: Remove all contaminated clothing. Wash skin, hair, and fingernails thoroughly with soap and water. If irritation persists seek medical attention. Wash clothing before reuse.
Ingestion: If swallowed, give 2 glasses of water to drink. Do not induce vomiting or give anything by mouth to an unconscious person. Call a physician to get medical attention.
Inhalation: Move subject to fresh air. Give artificial respiration if breathing has stopped. If breathing is difficult, give oxygen. Get medical attention immediately.

FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): Not applicable
FLAMMABLE LIMITS (LEL & UEL): Not applicable
EXTINGUISHING MEDIA: Considered non-combustible, use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog.
HAZARDOUS COMBUSTION PRODUCTS: May include but are not limited to oxides of carbon, hydrogen chloride, hydrogen fluoride, oxides of nitrogen, ammonia, oxides of phosphorus, oxides of sulfur, hydrogen sulfide.
SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Dusts or vapors can travel to a sources of ignition and flash back.

ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
Avoid breathing vapors. Absorb and sweep up liquid spills immediately and transfer to suitable containers for possible land application according to label use or for disposal. Check local, state and federal regulations for proper disposal.
CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

HANDLING AND STORAGE

HANDLING: Store in a cool dry place away from children, feed and food products, and seed.
OTHER PRECAUTIONS: Toxic to fish and other aquatic organisms. Do not contaminate water supplies by handling and storage of product. Drift or runoff may adversely affect aquatic invertebrates and non-target plants.

EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Not normally required.
RESPIRATORY PROTECTION: Not normally required, if vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved pesticide respirator.
EYE PROTECTION: Chemical goggles or shielded safety glasses.
SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear rubber or chemical-resistant gloves.

OSHA PEL 8 hr TWA Not established
ACGIH TLV-TWA Not Established
# PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>APPEARANCE AND ODOR</strong></td>
<td>Water clear liquid with fertilizer-like odor</td>
</tr>
<tr>
<td><strong>SPECIFIC GRAVITY</strong> (Water= 1)</td>
<td>1.407 g/ml</td>
</tr>
<tr>
<td><strong>BULK DENSITY</strong></td>
<td>11.74 lbs/gallon</td>
</tr>
<tr>
<td><strong>SPONTANEOUS DECOMPOSITION</strong></td>
<td>Not established</td>
</tr>
<tr>
<td><strong>PH (pH)</strong></td>
<td>7.0-7.5</td>
</tr>
<tr>
<td><strong>SOLUBILITY</strong></td>
<td>Soluble</td>
</tr>
<tr>
<td><strong>VAPOR PRESSURE</strong></td>
<td>Not established</td>
</tr>
<tr>
<td><strong>BOILING POINT</strong></td>
<td>Not established</td>
</tr>
<tr>
<td><strong>PERCENT VOLATILE (by volume)</strong></td>
<td>Not established</td>
</tr>
<tr>
<td><strong>EVAPORATION RATE</strong></td>
<td>Not established</td>
</tr>
</tbody>
</table>

**Note:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

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## STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Stability</th>
<th>Conditions to Avoid</th>
<th>Incompatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable</td>
<td>None known.</td>
<td>None known.</td>
</tr>
</tbody>
</table>

**Hazardous Decomposition Products:** Urea may decompose to release cyanuric acid, ammonia, HCN, NO.

**Hazardous Polymerization:** Will not occur.

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## TOXICOLOGICAL INFORMATION

- **Acute Oral LD50 (rat):** >5000 mg/kg
- **Acute Dermal LD 50 (rabbit):** >5000 mg/kg
- **Eye Irritation (rabbit):** May cause moderate irritation
- **Skin Irritation (rabbit):** May cause slight irritation
- **Inhalation:** May cause respiratory tract irritation.
- **Ingestion:** May cause stomach distress, nausea or vomiting.
- **Carcinogenic Potential:** None listed in OSHA, NTP, IARC or ACGIH

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## ECOLOGICAL INFORMATION

Drift or runoff may adversely affect non-target plants. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favor drift from target area.

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## DISPOSAL CONSIDERATIONS

Do not reuse container. Plastic Jugs: Triple rinse (or equivalent), then offer for recycling at an ACRC site or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state and federal regulations.

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## TRANSPORT INFORMATION

- **DOT Shipping Description:** Not regulated by DOT by highway.
- **U.S. Surface Freight Classification:** Fertilizing Compounds (Manufactured Fertilizers), NOI; Liquid (NMFC 68140, Sub 5; Class 50)

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## REGULATORY INFORMATION

- **NFPA & HMIS Hazard Ratings:**
  - NFPA: 1 Health, 0 Flammability, 0 Instability
  - HMIS: 1 Health, 0 Flammability, 0 Reactivity

- **SARA Hazard Notification/Reporting:**
  - Immediate: Y
  - Delayed: N
  - Fire: N
  - Reactive: N
  - Sudden Release of Pressure: N

- **Reportable Quantity (RQ) under U.S. CERCLA:** Not listed
- **SARA, Title III, Section 313:** Not listed
- **RCRA Waste Code:** Not listed
- **CA Proposition 65:** Not listed

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## OTHER

**MSDS STATUS:** Revision made 12/06/2020

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