APPLICATION


The Aquastat Controller is intended for use in residential-type applications.

The L7224U provides status and diagnostic information through an LED display combined with LED lights to enhance the diagnostic process.

SPECIFICATIONS

**Electrical Ratings:**
- Voltage: 120 Vac, 60 Hz.
- Power: 7 VA maximum at 120 Vac plus external loads.
- Thermostat current: 100 mA nominal at 24 Vac.
- Burner Relay:
  - 7.4 A at 120 Vac Full Load Amperage (FLA);
  - 44.4 A inrush Locked Rotor Amperage (LRA);
- Less Ignition Load: 360 VA.
- Circulator Relay:
  - 7.4 A at 120 Vac FLA;
  - 44.4 A inrush LRA.

**Environmental Ratings:**
- Temperature: -30° F to +150° F (-34° C to +66° C).
- Humidity: 0 to 95% relative humidity, noncondensing.

**Approvals:**
- Underwriters Laboratories Inc. Component Recognized.
- Canadian Underwriters Laboratories Inc. Component Recognized.

**Accessories:**
- Accessories (Ordered Separately):
  - Sensor (See Table 2).
  - Sensor Well Clamp 121371AA.
  - 14,000,485-016 1/4 in. (6.35 mm) diameter, 1-1/4 in. (31.75 mm) length glass cartridge Fuse, 1 A, Slow-Blow.
  - 120650 Heat Conductive Compound.

**Table 1. Wells for L7224U Controller.**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Spud Size in. (mm)</th>
<th>Insertion in. (mm)</th>
<th>Insulation in. (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>123869A</td>
<td>1/2 (12.7) NPT</td>
<td>3 (76.2)</td>
<td>1-1/2 (38.1)</td>
</tr>
<tr>
<td>123870A</td>
<td>3/4 (19.05) NPT</td>
<td>3 (76.2)</td>
<td>1-1/2 (38.1)</td>
</tr>
</tbody>
</table>

**Table 2. Sensors for L7224U Controller.**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Length in. (mm)</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>50001464-001</td>
<td>12 (304.8)</td>
<td>Well-mounted controls</td>
</tr>
<tr>
<td>50001464-002</td>
<td>18 (457.2)</td>
<td>Flush-mounted controls</td>
</tr>
<tr>
<td>50001464-003</td>
<td>24 (609.6)</td>
<td></td>
</tr>
<tr>
<td>50001464-004</td>
<td>36 (914.4)</td>
<td></td>
</tr>
<tr>
<td>50001464-005</td>
<td>48 (1219.2)</td>
<td></td>
</tr>
</tbody>
</table>
INSTALLATION

When Installing this Product...
1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. The installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in these instructions.
5. Set High Limit, Low Limit and Differential to the settings recommended by the boiler OEM.
6. Record the maximum High Limit setting from the replaced controller in the text box provided on the cover insert label.
7. Record the High Limit setting at the time of installation in the text box provided on the cover insert label.

WARNING
Electrical Shock Hazard. Can cause severe injury, death or property damage. Disconnect power supply before beginning installation to prevent electrical shock or equipment damage.

Mounting
The L7224U can be mounted in a well mount, horizontal or vertical position, or flush mounted remote from the well.

IMPORTANT
Immersion well must fit sensing element and sensor must rest against bottom of well.

New Installation
Order well assemblies separately; refer to Table 1 and form no. 68-0040, Immersion Wells and Compression Fittings for Temperature Controllers. Boilers usually have tappings that allow the well to be mounted horizontally so boiler water of average temperature can circulate freely over the well. See Fig. 1 for mounting dimensions.

Fig. 1. L7224U mounting dimensions in inches (mm).

1. Turn off all power and drain the boiler.
2. If no tapping is provided, prepare properly sized and threaded tapping near the top of the boiler.
3. Sparingly coat the well threads with pipe dope.

NOTE: Do not attempt to tighten by using the case as a handle.

4. Install the well in the boiler tapping and tighten securely.
5. Refill boiler and check for water leakage.
6. Identify if installation requires vertical or horizontal mounting.
7. Remove the well knockout, for either vertical or horizontal mounting, by carefully prying the knockout from the back of the case, using a flat-bladed screw driver. Refer to Fig. 2.
Flush-Mounted Aquastat Replacement

Turn off all power and remove the old controller. Refer to the cover insert of the old controller to identify and tag each external lead as it is disconnected. If the old well is unsuitable for the new installation, remove it and replace it with a suitable new well. If the old well is suitable, use it. See Figures 1 and 4 for mounting tab location.

IMPORTANT

Best thermal response is obtained with a well that snugly fits the sensor. Insert the sensor until it rests against the bottom of the well. Use a well of correct length and bend the wiring, if necessary, to hold the bulb against the bottom of the well.

If the well is not a snug fit on the sensor, use the heat-conductive compound (furnished with TRADELINE® models) as follows: Fold the plastic bag of compound lengthwise and twist it gently. Then snip off end of bag and work the open end of the bag all the way into the well. Slowly pull out the bag while squeezing it firmly to distribute compound evenly in the well. Bend the wiring, if necessary, to hold the sensor against the bottom of the well and to hold outer end of the sensor in firm contact with the side of the well. See Fig. 3. Wipe excess compound from the outer end of the well.
Well-Mounted Aquastat Replacement

Turn off all power and remove the old controller. Refer to the cover insert of the old controller to identify and tag each external lead as it is disconnected. If the old well is unsuitable for the new installation, remove it and proceed with instructions for new installation. If the old well is suitable, use it.

1. Loosen, but do not remove, the well clamp screw on the side of the controller case.
2. Position immersion well clamp snugly over the flange of the adapter and tighten the clamp screw.
3. Insert the sensor into the well as shown in Fig. 5. (If desired, distribute the heat-conductive compound in the tube prior to sensor insertion, as described in New Installation.)
4. Make sure sensor is fully seated to bottom of well (Fig. 5). Use a small pencil to measure depth of sensor in well, if necessary.

Replacement Sensor Installation

Turn off all power and carefully disconnect sensor from circuit board by pulling gently on the connector.

1. Gently pull sensor from thermo well and through circuit board by pulling on leadwires.
2. Carefully align replacement sensor with hole in circuit board and guide through Aquastat case and into well. Refer to Fig. 4.
3. Make sure sensor is fully seated to bottom of well (see Fig. 5). Use a small pencil to measure depth of sensor in well, if necessary.
4. Connect sensor to circuit board by pressing connector on sensor unit into mating connector on circuit board (refer to Fig. 4).
5. For remote sensors (flush mounted Aquastat) be sure to use the 121371AA clamp to securely hold sensor in place. See Accessories.

WIRING

**WARNING**

Electrical Shock Hazard.
Can cause serious injury or death.
Disconnect power supply before making wiring connections to prevent electrical shock or equipment damage.

All wiring must comply with local electrical codes and ordinances. Do not exceed the specifications in the Application section when wiring this controller.

**IMPORTANT**

The terminals on these Aquastat Controllers are approved for use with copper wire only.

Follow the appropriate wiring diagrams shown on the inside of the front cover of the L7224U or in Figures 8, 9, and 10.

OPERATION

General

The L7224U Oil Electronic Aquastat Controller is a primary safety limit-rated device designed for use with oil fired boilers with line voltage burners and circulators. Many boilers do not include wiring or controller compartments as part of the design, but are provided with an integral, replaceable, immersion well that is the mounting hardware for the Aquastat Controllers. Wiring to the other controllers is done through flexible metal conduit.

For boilers that do include a remotely (flush) mounted controller, the wiring may be completed with conduit or routed behind the boiler sheet metal.

A separate electromechanical High Limit is not required in a system that uses this controller to meet Underwriters Laboratories Inc. requirements for oil-fired boiler assemblies, UL 726.

On the L7224U, the High Limit, High Limit Differential, Low Limit, and Low Limit Differential can be adjusted to the setting recommended by the boiler OEM.

The overall range of the High Limit is from 130° F to 240° F (54° C to 116° C). Select devices may have different ranges. Some models have limited ranges on the High Limit setpoint; this limited range is listed on the device label.

The range of the Low Limit is from 110° F to 220° F (43° C to 104° C). Select devices may have different ranges. The L7224U is designed for use with 24 Vac electronic and electromechanical thermostats and EnviraCom™ enabled thermostats, and have screw-type terminals for easy field connection.

To replace a L8148A,C L7148A or L7248A,C controller, the Low Limit function must be disabled; see Adjusting Settings for directions.

Adjusting Settings

To discourage unauthorized changing of Aquastat settings, a procedure to enter the ADJUSTMENT mode is required. To enter the ADJUSTMENT mode, press the UP, DOWN, and I buttons (refer to Fig. 8) simultaneously for three seconds. Press the I button until the feature requiring adjustment is displayed:

- **HL** — High Limit.
- **LL** — Low Limit.
- **Ldf** — Low Limit Differential.
- **Hdf** — High Limit Differential.
- **F - C** — °F or °C.

Then press the UP and/or DOWN buttons to move the set point to the desired value. After 60 seconds without any button inputs, the controller will automatically return to the RUN mode.
To use the L7224U in a cold start boiler application, disable the Low Limit function by pressing the UP arrow button, DOWN arrow button and I button simultaneously for three seconds. Then push the I button until LL is displayed. Then press the down arrow button until OFF is displayed.

**Display**

In the RUN mode, the Aquastat will flash “bt” (boiler temp) followed by the temperature (i.e., 220), followed by °F or °C.

To read boiler settings, press the I key to read the parameter of interest. For example, press I and HL (High Limit) is displayed, followed by a three-digit number, i.e., 220, followed by °F or °C. Pressing the I button again will display the LL (Low Limit) followed by a three-digit number and the corresponding degree designator. See Fig. 6 for explanation of display readout.

After approximately 60 seconds without any key presses, the display will enter a dim display mode. To return to the bright display mode, simply press and release any key.

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**Fig. 6. Explanation of display readout.**

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**Operation**

The L7224U can be in any of four operational states: Normal, High Limit, Low Limit and Error. The controller moves back and forth from High Limit to Normal to Low Limit state as part of normal operation. The operating states are:

1. **Normal**: Boiler temperature went below the High Limit setting (minus the Differential) and has not dropped below the Low Limit setting (minus the Differential).
2. **High Limit**: Boiler temperature went above the High Limit setting and has not dropped below the High Limit setting (minus the Differential).
3. **Low Limit**: Boiler temperature went below the Low Limit setting (minus the Low Limit Differential) and has not gone above the Low Limit setting.
4. **Error**: The controller has detected an error condition (e.g., open sensor) and has shut down the burner output. The Zone Control (ZC) output is energized. The controller continues to monitor the system and automatically restarts if the error condition clears. Refer to Table 4.

The operating sequence for the L7224U is shown in Table 3.

**High Limit Controller**

The High Limit opens and turns off the burner when the water temperature reaches the setpoint. The High Limit automatically resets after the water temperature drops past the setpoint and through the adjustable Differential.

**Low Limit and Circulator Controller**

On a temperature rise, the burner circuit breaks and the circulator circuit makes (assuming no call for heat is present) at the Low Limit setpoint. On a temperature drop of $10^\circ F$ ($6^\circ C$) below the Low Limit setpoint (with the adjustable Differential at the minimum setting of $10^\circ F$ ($6^\circ C$)), the burner circuit makes and the circulator circuit breaks. Refer to Fig. 7.

---

<table>
<thead>
<tr>
<th>Text</th>
<th>Description</th>
<th>Shows</th>
</tr>
</thead>
<tbody>
<tr>
<td>bt</td>
<td>Boiler Temperature</td>
<td>b£</td>
</tr>
<tr>
<td>HL</td>
<td>High Limit</td>
<td>HL</td>
</tr>
<tr>
<td>LL</td>
<td>Low Limit</td>
<td>LL</td>
</tr>
<tr>
<td>Hdf</td>
<td>High Limit Differential</td>
<td>Hdf</td>
</tr>
<tr>
<td>Ldf</td>
<td>Low Limit Differential</td>
<td>Ldf</td>
</tr>
<tr>
<td>tt</td>
<td>Local Thermostat Status</td>
<td>t£</td>
</tr>
<tr>
<td>tte</td>
<td>Enviromat Thermostat Status</td>
<td>t£££</td>
</tr>
<tr>
<td>bm</td>
<td>Burner Status</td>
<td>b£££</td>
</tr>
<tr>
<td>cir</td>
<td>Circulator Status</td>
<td>££££ ££££ ££££ ££££</td>
</tr>
<tr>
<td>Zc</td>
<td>Zone Control</td>
<td>££££ ££££ ££££ ££££</td>
</tr>
<tr>
<td>Zr</td>
<td>Zone Request</td>
<td>££££ ££££ ££££ ££££</td>
</tr>
<tr>
<td>err</td>
<td>Error Code</td>
<td>££££ ££££ ££££ ££££</td>
</tr>
<tr>
<td>f</td>
<td>Degrees Fahrenheit</td>
<td>££££ ££££ ££££ ££££</td>
</tr>
<tr>
<td>c</td>
<td>Degrees Celsius</td>
<td>££££ ££££ ££££ ££££</td>
</tr>
</tbody>
</table>
Fig. 7. Setpoints and differentials.

NOTE: Setting the Low Limit less than the High Differential below the High Limit is not allowed as improper circulator and Zone Control functions could result.

CHECKOUT

Put the system into operation and observe at least one complete cycle to make sure that the controller operates properly. See TROUBLESHOOTING section to use LED to assist in determining system operation.

TROUBLESHOOTING

When attempting to diagnose system performance, reference to the LED display can help to identify specific areas not working properly. The LED display will scroll Err, followed by a digit (1-8). Refer to Table 4 for a description of each error and suggested actions and Table 5 for a troubleshooting guide.

Table 3. L724U/L7248 Controller Operating Sequence.

<table>
<thead>
<tr>
<th>Action</th>
<th>System Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermostat calls for heat.</td>
<td>Circulator starts when water temperature is above Low Limit setting (if applicable). Boiler temperature is checked. Burner starts when water temperature is below High Limit setting.</td>
</tr>
<tr>
<td>Boiler exceeds the High Limit.</td>
<td>Burner is turned off. Burner restarts when the water temperature drops below the High Limit setting minus the Differential.</td>
</tr>
<tr>
<td>Thermostat is satisfied.</td>
<td>Circulator and burner turn off.</td>
</tr>
<tr>
<td>Error conditions 1-5.</td>
<td>If an error condition is detected, all outputs except ZC are shut down. Burner is off. The controller continues to function and restarts when error is corrected. During the error check sequence, the system checks for drift in the sensor and corrosion in the connections.</td>
</tr>
<tr>
<td>Error condition 6.</td>
<td>EnviraCOM communication is not available.</td>
</tr>
<tr>
<td>Error condition 7.</td>
<td>The controller has reset the High Limit, Low Limit and Differential Setting to a default setting and will continue to run at those settings. Performance of the system will be degraded.</td>
</tr>
<tr>
<td>Error condition 8.</td>
<td>If the error condition is detected, all outputs except ZC are shut down. Burner is off. The controller continues to function and restarts when all three user keys have been pressed longer than 60 seconds.</td>
</tr>
</tbody>
</table>
Table 4. LED Error Codes.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Cause/Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Err1</td>
<td>Sensor fault; check sensor.</td>
</tr>
<tr>
<td>Err2</td>
<td>ECOM fault; check EnviraCOM™ wiring.</td>
</tr>
<tr>
<td>Err3</td>
<td>Hardware fault; replace controller.</td>
</tr>
<tr>
<td>Err4</td>
<td>B1 fault; check B1 wiring/voltage.</td>
</tr>
<tr>
<td>Err5</td>
<td>Low Line; check L1-L2, 110 Vac.</td>
</tr>
<tr>
<td>Err6</td>
<td>Fuse; check ECOM wires, replace fuse.</td>
</tr>
<tr>
<td>Err7</td>
<td>EEPROM, HL, LL, Hdf, Ldf; reset to default values.</td>
</tr>
<tr>
<td>Err8a</td>
<td>Repeated B1 fault (voltage present at B1 when output is turned off); check B1 wiring/voltage.</td>
</tr>
</tbody>
</table>

To clear Err 8 condition, depress and hold all three iser keys simultaneously for 60 seconds. Err 8 condition clears and display returns to normal. Err 8 condition is designed to catch welded relays on the Aquasat and will normally only occur near end of life for the control. If Err 8 condition has occurred early in the controls life, be sure to check for voltage feedback to B1 when B1 should be off and check current draw on b terminal to be sure oil burner is not drawing excessive current. Err 8 condition will keep repeating if B1 fault is not cleared.

Table 5. Troubleshooting Guidea.

<table>
<thead>
<tr>
<th>System Condition</th>
<th>Diagnostic Condition</th>
<th>Check</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiler is cold, house is cold.</td>
<td>Display is OFF.</td>
<td>120 Vac system power.</td>
<td>Turn system power on.</td>
</tr>
<tr>
<td>Display is ON. TT-LED is OFF.</td>
<td>24 Vac T-T.</td>
<td>No 24 V; replace controller.</td>
<td></td>
</tr>
<tr>
<td>Display is ON. TT-LED is ON.</td>
<td>24 V present; disconnect thermostat, short T-T.</td>
<td>Boiler starts, check wiring and thermostat.</td>
<td></td>
</tr>
</tbody>
</table>
| Display is ON. TT-LED is ON. B1 LED is ON. | 120 Vac at B1-B2. | • If no, replace controller.  
  • If yes, check burner and wiring. |
| Display is ON. TT-LED is ON. | Refer to Err on display. | — |
| Boiler is hot, house is cold. | Display is ON. TT-LED is ON. C1 LED is ON. | 120 Vac at C1-C2. | • 120 Vac at C1-C2, check wiring to pump.  
  • Wiring ok, is pump running?  
  If not, replace the pump.  
  • If pump is running, check for trapped air or closed zone valves. |
| Display is ON. TT-LED is ON. C1 LED is OFF. ZC LED is ONb. | Boiler below the Low Limit temperature, wait for boiler to go above Low Limit temperature. | — |
| Display is ON. TT-LED is ON. ZC LED is OFFc. | Boiler above LL? If yes, check for 120 Vac between ZC and L2. | • If no 120 Vac, replace controller.  
  • If yes, check zone relays, circulators and wiring. |

a Refer to Fig. 5 for Display and LED locations.
b ZC LED ON indicates ZC terminal power is OFF.
c ZC LED OFF indicates ZC terminal power is ON.
Fig. 9. L7224U multizone system with circulator connections.
Fig. 10. L7224U multizone system with circulator connections and EnviraCOM™ thermostat.
MATERIAL SAFETY DATA SHEET

Section 1. Product And Company Identification
Product Name: Heat Conductive Compound
MSDS ID: DS9021
Synonyms: MS1699
Product Use: Heat conductive material used to enhance contact and heat transfer in temperature sensor applications.

Manufacturer: Honeywell Inc.
1985 Douglas Drive North
Minneapolis, MN 55422.
Date Released: October 8, 1999
Customer Response Center: 800-328-5111
Emergency Telephone Information: 888-809-3787

NFPA Ratings:
Health 0; Flammability 1; Reactivity 0; Personal Protection B

Section 2. Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Percent</th>
<th>PEL</th>
<th>TVL</th>
</tr>
</thead>
<tbody>
<tr>
<td>#2 Lithium Complex Grease (70%):</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mineral Oil</td>
<td>64742-65-0</td>
<td>35-50</td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Mineral Oil</td>
<td>64742-62-7</td>
<td>20-25</td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Lithium Hydrostearate/Sebacate Complex</td>
<td>68815-49-6</td>
<td>4-9</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Zinc Alkyldithiophosphate</td>
<td>68649-42-3</td>
<td>0-2</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Aluminum Paste (30%):</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminum, as Al</td>
<td>7429-90-5</td>
<td>20-25</td>
<td>15 mg/m³</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>Aliphatic Petroleum Distillates</td>
<td>8052-41-3</td>
<td>10-15</td>
<td>2900 mg/m³</td>
<td>525 mg/m³</td>
</tr>
<tr>
<td>Stearic Acid</td>
<td>57-11-4</td>
<td>1-2</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Aromatic Petroleum Distillates</td>
<td>64742-95-6</td>
<td>1-2</td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
</tr>
</tbody>
</table>

Additional Information: Part No. 120650 (0.5 oz tube); Part No. 107408 (4 oz can); Part No. 197007 (5 gallon container). May also contain minute amounts of lithium and molybdenum lubricant compounds.

Section 3. Hazard Identification

Acute Health Effects:
Skin: Excessive contact may cause skin irritation and dermatitis.
Eye: Direct contact with eye will cause irritation.
Inhalation: No adverse effects are expected.
Ingestion: Ingestion of product may cause nausea, vomiting and diarrhea.

Chronic Health Effects:
Existing skin rash or dermatitis may be aggravated by repeated contact.
OSHA Hazard Classifications: None.
Carcinogenicity: Not considered to be a carcinogen by either OSHA, NTP, IARC, or ACGIH.
Section 4. First Aid Measures
Eye Contact: Flush eyes with water for 15 minutes. Obtain medical attention if irritation develops and persists.
Skin Contact: Remove excess with cloth or paper. Wash thoroughly with mild soap and water. Obtain medical attention if irritation develops and persists.
Ingestion: Contact physician or local poison control center immediately.
Inhalation: Remove patient to fresh air and obtain medical attention if symptoms develop.

Section 5. Fire Fighting Measures
Material Flash Point: > 383° F (195° C). Will burn if exposed to flame.
Extinguishing Media: Carbon dioxide, dry chemical or foam.
Special Fire Fighting Procedures: None.
Explosion Hazards: None. Aluminum powder can react with water to release flammable hydrogen gas. In the form of this product, this reaction is not expected.

Section 6. Accidental Release Measures
Scrape up and dispose of as solid waste in accordance with state and federal regulations.

Section 7. Handling and Storage
Store in dry place. Keep container closed when not in use.

Section 8. Exposure Controls and Personal Protection
Ventilation: No special ventilation is required when working with this product.
Respiratory Protection: None required.
Eye Protection: Not normally required. However, use chemical safety goggles or faceshield if potential for eye contact exists, especially if material is heated.
Hand/Clothing Protection: Not normally required. Protective gloves and clothing are recommended, as material is difficult to remove from skin and clothing.
Other Protective Equipment: None required.

Section 9. Physical and Chemical Properties
Appearance/Odor: Aluminum color, semi-solid material, pleasant odor.
Solubility in Water: Negligible.
Specific Gravity: 0.86.

Section 10. Stability and Reactivity
Stability: Stable.
Reactivity: Hazardous polymerization will not occur.
Incompatibilities: Strong oxidizing agents and halogens.
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide.

Section 11. Toxicology Information
No data available.

Section 12. Ecological Information
Chemical Fate Information: Hydrocarbon components will biodegrade in soil; relatively persistent in water.

Section 13. Disposal Consideration
Dispose of as solid waste in accordance with local, state and federal regulations.

Section 14. Transportation Information
DOT Classification: Not classified as hazardous.

Section 15. Regulatory Information
SARA Title III Supplier Notification: Include in Section 311/312 inventory reports if amounts exceed 10,000 pounds. Aluminum compounds are subject to the reporting requirements under Section 313 of Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Ingredients listed in TSCA Inventory.

Section 16. Other Information
This information is furnished without warranty, expressed or implied, except that it is accurate to the best of our knowledge.