

Fig. 23. Setting stop in position to limit the high limit setting to 200°F (93°C).

# **Heat Anticipator**

The thermostat heat anticipator should be set at 0.2A.

# CHECKOUT

Put the system into operation and observe each function through at least one complete cycle. Be sure the control operates as intended.

Material Safety Data Sheet (MSDS) for heat-conductive compound, which is included with TRADELINE Aquastat Relay models.

# MATERIAL SAFETY DATA SHEET (MSDS)

# 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.

NFPA Ratings:

Health 0; Flammability 1; Reactivity 0; Personal Protection B.

# Section 2. Composition, Information on Ingredients (Table 3).

Ingredients	CAS Number	Percent	PEL	TLV
No. 2 Lithium Complex Grease (70%):				
Mineral Oil	64742-65-0	35-50	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Mineral Oil	64742-62-7	20-25	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Lithium Hydrostearate/Sebacate Complex	68815-49-6	4-9	—	—
Zinc Alkyldithiophosphate	68649-42-3	0-2	—	—
Aluminum Paste (30%):				
Aluminum, as Al	7429-90-5	20-25	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Aliphatic Petroleum Distillates	8052-41-3	10-15	2900 mg/m <sup>3</sup>	525 mg/m <sup>3</sup>
Stearic Acid	57-11-4	1-2	—	—
Aromatic Petroleum Distillates	64742-95-6	1-2	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

#### Table 3. Ingredients of Heat Conductive Compound<sup>a</sup>.

<sup>a</sup> Additional Information: Part No. 120650 (0.5 oz. tube); Part No. 107408 (4 oz. can); Part number 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 can 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.

#### **Target Organs:**

None known.

## Section 4. First Aid Measures

#### Eye Contact:

Flush eyes with water for 15 minutes. Remove any contact lenses and continue to flush. 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**

#### 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 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.

#### Eve 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.

#### Prepared By:

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# Honeywell

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