

## 107408, 120650, 197007 Heat Conductive Compound

SERVICE DATA

### MATERIAL SAFETY DATA SHEET (MSDS) FOR HEAT-CONDUCTIVE COMPOUND



## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Heat Conductive Compound

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: April 16, 1999

MSDS ID: MBH039

NFPA Ratings:

Health 0

Flammability 1

Reactivity 0

Personal Protection B

### SECTION 2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Percent	PEL	TLV
No. 2 Lithium Complex Grease (70%):				
Mineral Oil	64742-65-0	35-50	5 mg/m3	5 mg/m3
Mineral Oil	64742-62-7	20-25	5 mg/m3	5 mg/m3
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/m3	10 mg/m3
Aliphatic Petroleum				
Distillates	8052-41-3	10-15	2900 mg/m3	525 mg/m3
Stearic Acid	57-11-4	1-2	—	—
Aromatic Petroleum				
Distillates	64742-95-6	1-2	5 mg/m3	5 mg/m3

Additional Information: Part No. 120650 (0.5 oz tube); Part No. 107408 (4 oz can); Part No. 197007 (5 gal 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.  
TARGET ORGANS: None known.

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SECTION 4. FIRST AID MEASURES

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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.

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SECTION 5. FIRE FIGHTING MEASURES

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FLASH POINT: >383 F (COC) 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.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

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Scrape up and dispose as solid waste in accordance with state and federal regulations.

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SECTION 7. HANDLING AND STORAGE

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Store in dry place. Keep container closed when not in use.

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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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VENTILATION: No special ventilation is required when working with this product.  
RESPIRATORY PROTECTION: None.  
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.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE/ODOR: Aluminum color, semi-solid material, pleasant odor.  
SOLUBLE IN WATER: Negligible.  
SPECIFIC GRAVITY: 0.86.

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SECTION 10. STABILITY AND REACTIVITY

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STABILITY: Stable.  
REACTIVITY: Hazardous polymerization will not occur.  
INCOMPATIBILITIES: Strong oxidizing agents and halogens.  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide.

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SECTION 11. TOXICOLOGY INFORMATION

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No data available.

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SECTION 12. ECOLOGICAL INFORMATION

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CHEMICAL FATE INFORMATION: Hydrocarbon components will biodegrade in soil; relatively persistent in water.

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SECTION 13. DISPOSAL CONSIDERATION

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Dispose of as solid waste in accordance with Local, State and Federal regulations.

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SECTION 14. TRANSPORTATION INFORMATION

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DOT CLASSIFICATION: Not classified as hazardous.

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SECTION 15. REGULATORY INFORMATION

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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.

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SECTION 16. OTHER INFORMATION

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

PREPARED BY: PROSAR, 1295 Bandana Blvd, Suite 335, St Paul, MN 55108  
(651-917-6100)

**Honeywell**

**Home and Building Control**  
Honeywell Inc.  
Honeywell Plaza  
P.O. Box 524  
Minneapolis, MN 55408-0524

**Home and Building Control**  
Honeywell Limited-Honeywell Limitée  
155 Gordon Baker Road  
North York, Ontario  
M2H 3N7

