

# MATERIAL SAFETY DATA SHEET

MSDS No: HTC-06B

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: T - 802B  
Product Use: HEAT TRANSFER COMPOUND  
Supplier: THERMON MANUFACTURING COMPANY  
Address: 100 THERMON DRIVE, SAN MARCOS, TEXAS 78667  
Telephone: (512) 396-5801 Fax: (512) 396-3627

## SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

| <u>Ingredient</u>    | <u>CAS Number</u> | <u>Exposure Limits</u>            | <u>Weight %</u> |
|----------------------|-------------------|-----------------------------------|-----------------|
| Natural Graphite     | 7782-42-5         | 5mg/m <sup>3</sup> OSHA PEL       | 10 - 30 %       |
| Calcium Metasilicate | 13983-17-0        | 10 mg/m <sup>3</sup> 8 hr TLV-TWA | 1 - 5 %         |
| Amidoamine Resin     | 68443-08-3        | TLV not established.              | 40 - 70 %       |

## SECTION 3 - HAZARDS IDENTIFICATION

NFPA HAZARDS IDENTIFICATION: FIRE: 1 (SLIGHT)  
HEALTH: 2 (MODERATE)  
REACTIVITY: 0 (MINIMAL)

MAY CAUSE IRRITATION TO SKIN AND EYES ON CONTACT. MAY CAUSE IRRITATION TO MUCOUS MEMBRANES OF MOUTH, THROAT, ESOPHAGUS AND STOMACH IF SWALLOWED.

## SECTION 4 - FIRST-AID MEASURES

Eyes: FLUSH THOROUGHLY WITH WATER FOR 10 TO 15 MINUTES. CONTACT A PHYSICIAN IF IRRITATION PERSISTS. Skin: WASH WITH SOAP AND WATER. Ingestion: DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS. OTHERWISE INDUCE VOMITING BY GIVING 2 GLASSES OF WATER FOLLOWED BY 2 TABLESPOONS OF SYRUP OF IPECAC OR BY STICKING FINGER TO THE BACK OF THE THROAT. GET MEDICAL ATTENTION IMMEDIATELY.

## SECTION 5 - FIRE FIGHTING MEASURES

Means of extinction: WATER SPRAY, DRY CHEMICAL, CO<sub>2</sub> OR FOAM.  
Special fire fighting notes: NONE  
Hazardous combustion products: MAY FORM CARBON DIOXIDE AND CARBON MONOXIDE AND VARIOUS HYDROCARBONS.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: ALWAYS WEAR PROTECTIVE EQUIPMENT WHEN HANDLING THIS PRODUCT.  
Environmental precautions: PREVENT DISCHARGE TO STREAMS OR SEWER SYSTEMS.  
Methods for cleaning up: SCRAPE UP AND PUT INTO A PROPER CONTAINER FOR DISPOSAL.

## SECTION 7 - HANDLING AND STORAGE

Prevention of user exposure: WEAR GOGGLES AND RUBBER GLOVES IN SITUATIONS WHERE CONTACT IS POSSIBLE. Precautions for safe handling: STORE AT NORMAL ROOM TEMPERATURES.

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT**

Natural Graphite: 2 mg/m<sup>3</sup> (respirable fraction) TLV-TWA ACGIH (2006)  
TLV Critical Effect: Pneumoconosis  
2.5 mg/m<sup>3</sup> (respirable) PEL -TWA Final rule limits OSHA  
Calcium Metasilicate 10mg/m<sup>3</sup> 8 hr. TWA TLV

**FOLLOW SAFE INDUSTRIAL HYGIENE PRACTICES AND ALWAYS WEAR PROTECTIVE EQUIPMENT WHEN HANDLING THIS PRODUCT.**

**Hand Protection: WEAR RUBBER GLOVES WHERE SKIN CONTACT IS POSSIBLE.**

**Respiratory Protection: IF DUST CONCENTRATIONS EXCEED TLV, USE A NIOSH / MSHA APPROVED DUST RESPIRATOR.**

**Eye protection: WEAR GOGGLES WHERE EYE CONTACT IS POSSIBLE.**

**Engineering Controls: VENTILATE TO KEEP BELOW THE TLV.**

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

|  |   |
|--|---|
| Physical State: <b>BLACK PASTE.</b>              | Density @ 20 C <sup>0</sup> : 1.44            |
| Odor threshold: <b>NO SPECIFIC ODOR.</b>         | pH: Not available.                            |
| Vapour pressure @61.5 C <sup>0</sup> : 156 mmHg. | Evaporation rate (water = 1): Not applicable. |
| Percent volatile by volume: 0 %.                 | Percent Solubility in water: TRACE            |
| Boiling Point @760mmHG: <b>NONE</b>              |   |
| Flash Point (C <sup>0</sup> ) and method:        | Not applicable. No volatile organic content.  |
| Explosion Properties:                            | Not applicable.                               |

**SECTION 10 – STABILITY AND REACTIVITY**

Is the product stable: **PRODUCT IS STABLE.**  
Materials to avoid: **AVOID CONTACT WITH STRONG OXIDIZING AGENTS AND STRONG LEWIS OR MINERAL ACIDS.**  
Hazardous decomposition products: **MAY FORM CARBON DIOXIDE AND CARBON MONOXIDE AND VARIOUS HYDROCARBONS IF BURNED.**

**SECTION 11- TOXICOLOGICAL INFORMATION**

Primary routes of exposure: **SKIN AND EYE CONTACT, INGESTION.**  
Effects of acute exposure:  
**Eyes: MAY CAUSE IRRITATION IF NOT TREATED.**  
**Skin: MAY CAUSE SEVERE IRRITATION ON CONTINUED CONTACT.**  
**Ingestion: IRRITATION TO MUCOUS MEMBRANES OF MOUTH, THROAT, ESOPHAGOUS AND STOMACH.**  
Chronic Health Effects: **THIS PRODUCT HAS NO KNOWN CHRONIC EFFECTS. REPEATED OR PROLONGED EXPOSURE TO THIS COMPOUND IS NOT KNOWN TO AGGRAVATE MEDICAL CONDITIONS.**  
Carcinogenicity: **THIS PRODUCT'S INGREDIENTS ARE NOT LISTED BY NTP, IARC OR REGULATED AS CARCINOGENS BY OSHA.**  
Animal toxicity: **ACUTE ORAL – 15.6 G/KG (MOUSE) TESTING OF RESIN ONLY.**

## SECTION 12 - ECOLOGICAL INFORMATION

Possible environmental effects: NATURAL GRAPHITE AND CALCIUM METASILICATE ARE FROM NATURAL OCCURRING SOURCES. CALCIUM METASILICATE IS NATURAL FORMING SILICATE FOUND IN METAMORPHIC ROCKS. NATURAL GRAPHITE IS AN INORGANIC CARBON COMPOUND CONSISTING OF GRAPHITIC CARBON. EFFECT OF LOW CONCENTRATIONS ON AQUATIC LIFE IS UNKNOWN. Occurrence: New York, California, [Lewis, R.J., Sr. (Ed.) Hawley's Condensed Chemical Dictionary. 13<sup>th</sup> ed. New York, NY: John Wiley and Sons Inc., 1997

## SECTION 13 – DISPOSAL CONSIDERATIONS

Waste disposal: DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. PREVENT DISCHARGES TO STREAMS OR SEWER SYSTEMS.

## SECTION 14 - TRANSPORT CONSIDERATIONS

Special shipping information: NOT SPECIFICALLY LISTED IN THE US HAZARDOUS MATERIALS SHIPPING REGULATIONS (49CFR, TABLE 172.101).

## SECTION 15 – REGULATORY INFORMATION

DOES NOT CONTAIN ANY INGREDIENTS DESIGNATED BY IARC, NTP, ACGIH OR OSHA AS A PROBABLE HUMAN CARCINOGEN. TSCA STATUS – THE INGREDIENTS IN THIS MATERIAL ARE INCLUDED ON OR EXEMPTED FROM LISTING ON THE TSCA INVENTORY OF CHEMICAL SUBSTANCES.

## SECTION 16 - OTHER INFORMATION

Information Sources: SUPPLIERS' MATERIAL SAFETY DATA SHEET, CCOSH CHEMINFO.  
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Preparation date: July 13, 2007

Data is presented in good faith and is not as a product specification. Nor warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.