

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: T - 3
 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 ³ PEL	30 – 60 %
Ball Clay	1332-58-7		1 - 5 %
Aqueous Alkaline Sodium Silicate	1344-09-8		30 – 60 %
Thermally Conductive Ceramic	302-67-6		1 – 6 %

SECTION 3 - HAZARDS IDENTIFICATION

NFPA hazards identification: Fire: 0 (minimal)
 Health: 1 (slight)
 Reactivity: 0 (minimal)

MAY CAUSE IRRITATION OF THE 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, CO₂ OR FOAM.
 Special fire fighting notes: WILL NOT BURN.
 Hazardous combustion products: NONE KNOWN

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 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: KEEP CONTAINER CLOSED WHEN NOT IN USE. STORE AT NORMAL ROOM TEMPERATURES.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

Natural Graphite: 2 mg/m³ (respirable fraction) TLV-TWA ACGIH (2006)
TLV Critical Effect: Pneumoconosis
2.5 mg/m³ (respirable) PEL -TWA Final rule limits OSHA

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

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

Ventilation: VENTILATE TO KEEP BELOW TLV.

Protective Gloves: WEAR RUBBER GLOVES IN SITUATIONS WHERE CONTACT IS POSSIBLE.

Eye Protection: WEAR GOGGLES IN SITUATIONS WHERE CONTACT IS POSSIBLE.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State: BLACK PASTE	Density @ 20 C ⁰ : 1.68
Odor threshold: NO SPECIFIC ODOR.	pH: Not available.
Vapour pressure @61.5 C ⁰ : 156 mmHg.	Evaporation rate (water = 1): >1
Percent volatile by volume: 0 %.	Percent Solubility in water: 50%
Boiling Point @760mmHG:: 214-216 ⁰ F (101 - 102 ⁰ C)	
Flash Point (C ⁰) 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 ACIDIC MATERIALS.**
Hazardous decomposition products: **NONE KNOWN.**

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: AQUEOUS ALKALINE SODIUM SILICATE LD50 RAT ORAL 1.1 - 1.6 g/kg
LD50 MOUSE ORAL 1,100 mg/kg**

SECTION 12 - ECOLOGICAL INFORMATION

Possible environmental effects: BALL CLAY IS A NATURAL CLAY MINERAL WHOSE MAIN CONSTITUENT IS KAOLINITE (A12-Si2-O5(OH)4). NATURAL GRAPHITE IS AN INORGANIC CARBON COMPOUND CONSISTING OF GRAPHITIC CARBON. EFFECT OF LOW CONCENTRATIONS ON AQUATIC LIFE IS UNKNOWN. PREVENT DISCHARGES TO STREAMS OR SEWER SYSTEMS Occurrence: New York, California, [Lewis, R.J., Sr. (Ed.) Hawley's Condensed Chemical Dictionary. 13th 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.