



Safety Data Sheet

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SECTION 1: Identification

1.1 Product

Non Hardening Heat Transfer Compound

1.2 Recommended use / restrictions on use

For use in heat tracing and various other applications to aid in the transfer of heat.

1.3 Supplier

Manufacturer: Thermon Manufacturing Company

Address: 100 Thermon Drive, San Marcos, Texas 78667 USA

Telephone: 1 (800) 820-4328 or 1 (512) 396-5801

1.4 Emergency phone number

1 (800) 820-4328 or 1 (512) 396-5801

1 (713) 205-2690 (24 Hours)

Alternate: National Poison Control Center: 1 (800) 222-1222

SECTION 2: Hazard identification

2 General Information

Product is a viscous paste (see detailed composition in Section 3). Product is packaged in 1 quart (0.9 L), 1 gallon (3.8 L), or 5 gallon (18.9 L) buckets or preinstalled on Heetsheets.

2.1 Hazard classification

GHS: Not classified as a hazardous substance or material

2.2 Label types

Signal word: No signal word applicable

Symbols: No symbol applicable

Pictogram: None

2.3 Hazard statements

Causes skin irritation. During installation, the compound may cause irritation of the skin and eyes on contact.

Causes eye irritation.

2.3.1 Risk code

Irritating to the skin, eyes, and respiratory system

2.3.2 Safety statements

In case of contact with eyes, rinse with plenty of water for several minutes and seek medical advice.
Wear suitable protective clothing, gloves, and eye/face protection.

2.3.3 Precautionary statements

Do not get in eyes, on skin, or on clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin or hair, rinse skin or hair with water or shower. Wash with plenty of soap and water for skin irritation.

If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present, and easy to do. Continue rinsing.

Get medical advice/attention, if irritation persists.

2.4 Hazards not otherwise classified

None

SECTION 3: Composition/information on ingredients

| Ingredient | CAS No | EC No | Class* | Weight % ⁺ |
|----------------------|------------|-----------|--------|-----------------------|
| Natural Graphite | 7782-42-5 | 231-955-3 | Xi | 30 - 60 % |
| Graphite | 7440-44-0 | 231-153-3 | | 30 - 60 % |
| Calcium Metasilicate | 13983-17-0 | 237-772-5 | | 1 - 5 % |
| Azelate Polyester | 29408-67-1 | 608-355-9 | | 30 - 60 % |

* See SECTION 2 for a full list of risk codes and safety statements.

+ The exact percentage of this composition is held as a trade secret.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact: Flush thoroughly with water for several minutes, while holding eye lids open. Remove contact lenses if easy to do. If irritation persists, seek medical attention.

Skin contact: Wash the area of contact with soap and water. If irritation persists seek medical attention

Inhalation: Relocate to fresh air. If breathing is difficult after being relocated to fresh air, administer oxygen and seek medical attention. If irritation persists or develops later, seek medical attention

Ingestion: If ingested, irritation can be reduced by rinsing mouth with water, drinking water, and otherwise treating symptomatically. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No known significant effects or critical hazards. Refer to SECTION 11- Information on toxicological effects.

4.3 Indication of immediate medical attention and special treatment needed

Notes to physician: No specific treatment. Treat symptomatically. Contact a poison treatment specialist if large quantities have been ingested or inhaled.

Protection of first aid personnel: No action shall be taken involving any personal risk or without suitable training. Wash contaminated clothing thoroughly with water.

SECTION 5: Fire-fighting measures

5.1 Flammable limits

No data available.

5.2 Suitable extinguishing media

Small fires should use dry chemical, while large fires should use water spray, CO₂, fog, or foam.

5.3 Unsuitable extinguishing media

None known.

5.4 Special exposure hazards arising from product

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

5.5 Special protective equipment for fire-fighting

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions

For large spills, wear chemical goggles, body-covering protective clothing, gloves, and rubber boots. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods for cleaning up a spill

Contain spillage and cover/absorb spill with non-combustible absorbent material (vermiculite, sand, or similar). Collect and place in suitable containers for disposal. Refer to Section 13: Disposal considerations for information regarding disposal. In all cases, follow requirements in applicable local regulations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wear goggles and gloves in situations where contact is possible. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Do not take internally. Wash thoroughly after handling. Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse. Keep container closed. Promptly clean up spills. Handle in accordance with good industrial hygiene and safety practice.

7.2 Precautions for safe storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been

opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: Exposure controls/personal protection

8.1 General advice

Follow safe industrial hygiene practices and always wear protective equipment when handling this product. Protective equipment should meet recommended national standards. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

8.2 Engineering controls

Use with adequate ventilation. Keep containers closed. A safety shower and eyewash station should be within direct access.

8.3 Eye protection

Wear goggles in situations where contact is possible.



8.4 Protective gloves

Wear gloves in situations where continuous contact is required.. Wash hands before breaks and at the end of workday. Skin should be washed after contact.



8.5 Respiratory protection

If dust concentrations exceed recommended TLV, use NIOSH/MSHA approved dust respirator.



8.6 Exposure limits for dust

Natural Graphite: OSHA PEL: TWA 5 mg/m³ (resp)

Graphite: OSHA PEL: 2.5 mg/m² (resp)

8.7 Ventilation

Ventilate to keep below TLV.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--------------------------------------|-------------------|
| Physical State: | Black Paste |
| Specific Gravity at 20 °C: | 1.55 |
| Odor/Odor Threshold: | No Specific Odor. |
| pH: | Not available |
| Vapor Pressure: | No data available |
| Evaporation Rate (Water = 1): | No data available |
| Percent Volatile by Volume: | 0 %. |

| | |
|---|------------------------------|
| Percent Solubility in Water: | Insoluble |
| Boiling Point at 14.7 psi (760mmHg): | 540 °F (282 °C) |
| Flash Point (°C) and Method: | No volatile organic content. |
| Explosion Properties: | No data available |
| Vapor Density: | No data available |
| Relative Density: | No data available |
| Partition Coefficient: | No data available |
| Auto-ignition Temperature: | No data available |
| Decomposition Temperature: | No data available |
| Viscosity: | No data available |
| Flammability: | No data available |
| Freezing Point: | No data available |

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Stability

Compound is stable when stored and used in its recommended temperature range.

10.3 Conditions to be avoided

No specific data.

10.4 Materials to avoid

Non compatible with oxidizing agents and acids.

10.5 Hazardous decomposition products

No specific data

SECTION 11: Toxicological information

11.1 Primary routes of exposure

Skin is the primary route for human exposure.

11.2 Effects of acute exposure

Eyes: Compound may cause irritation and redness if flushed.

Skin: Compound may cause irritation on continued contact.

Ingestion: Irritation to mucous membranes of mouth, throat, esophagus, and gastrointestinal system are possible. Ingestion may result in mild irritation, nausea, vomiting, abdominal pain, and diarrhea.

Chronic Health Effects: This compound has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.

Carcinogenicity: No structural alerts. NTP, IARC, ACGIH, and OSHA do not list this product as known or suspected carcinogen.

Mutagenicity: No evidence of genotoxicity. In vitro/in vivo negative.

Sensitization: No evidence of sensitizing.

Reproductive Toxicity: No evidence of reproductive toxicity or developmental toxicity.

11.3 Acute toxicity

No data available.

11.4 Special Studies

No data available.

SECTION 12: Ecological information

12.1 Possible environmental effects

Prevent discharges to streams or sewer systems.

12.2 Ecological toxicity

None known.

12.3 Mobility

Not applicable.

12.4 Persistence and degradability

No information available.

12.5 Physical/Chemical

No information available.

12.6 Other Adverse Effects

None known.

SECTION 13: Disposal considerations

13.1 Waste disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

13.2 Packaging/waste treatment methods

Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

13.3 Additional Information

No special precautions.

SECTION 14: Transport information

Special shipping information: Not specifically listed in the US hazardous materials shipping regulations (49CFR, Table 172.101).

DOT (U.S.):

| | |
|--------------------------------|-----------------------|
| DOT Shipping Name: | Not regulated. |
| DOT Hazardous Class | Not applicable. |
| DOT UN Number: | Not applicable. |
| DOT Packing Group: | Not applicable. |
| DOT Reportable Quantity (lbs): | Not available. |
| Note: | No additional remark. |

Marine Pollutant: Not applicable.

CANADA Information:

TDG (Canada):

TDG Shipping Name: Not regulated.
Hazard Class: Not applicable.
UN Number: Not applicable.
Packing Group: Not applicable.
Note: No additional remark.
Marine Pollutant: Not applicable.

EU Transportation Information:

UN Number: Not regulated.
UN proper shipping name: Not applicable.
Transport Hazard Class: Not applicable.
Packing Group: Not applicable.
Environmental Hazards: Not classified as a marine pollutant.
DOT UN Status: Not applicable.
Special Precautions: None.
Overland (ADR/RID): None
Sea (IMDG): None
Air (ICAO/IATA): None
Transport in bulk according to ANNEX II of MARIPOL 73/78 and the IBC Code:
Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

TSCA Inventory Status: Reported/Included.
AICS Inventory Status: Reported/Included.
DSL/NDSL Inventory Status: Reported/Included.

Data for Azelate Polyester:

U.S. Federal regulations:

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

No products were found.

State regulations:

Massachusetts: None of the components are listed.

New York: None of the components are listed.

New Jersey: None of the components are listed.

Pennsylvania: None of the components are listed.

Canada Regulations:

Canada inventory: All components are listed or exempted.

WHMIS (Canada): Not controlled under WHMIS (Canada).

Canadian Lists:

CEPA Toxic substances: None of the components are listed.

Canadian ARET: None of the components are listed.

Canadian NPRI: None of the components are listed.

Alberta Designated Substances: None of the components are listed.

Ontario Designated Substances: None of the components are listed.

Quebec Designated Substances: None of the components are listed.

15.2 Chemical Safety Assessment

Information available on request.

SECTION 16: Other information

NFPA hazards identification:

Health: 1

Instability: 0

Flammability: 1

Special Hazards: None

HMIS hazards identification:

Health: 1

Flammability: 1

Reactivity: 0

Personal Protection: Refer to Section 8.

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Information Sources: Suppliers' material safety data sheets, CCOSH Cheminfo.

Prepared by: Thermon Manufacturing Company

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Disclaimer:

Data is presented in good faith and is based on the present state of our knowledge. It is intended to describe the compound with regard to the appropriate safety precautions. This information is not intended to be a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, users should review these recommendations in the specific context of the intended use and determine whether they are appropriate.