Section 1. Identification

Product Identifier: Dynatex® 49643 Heat Transfer Compound
Synonyms: 49643WH04
Manufacturer Stock Numbers: 49463WH04

Recommended use: Refer to Technical Information
Uses advised against: Refer to Technical Information

Manufacturer Contact
Address: Dynatex a division of Soudal Accumetric
350 Ring Road
Elizabethtown, KY, 42701
USA

Phone: (270) 769-3385
Emergency Phone: (800) 424-9300
Fax: (270) 769-6418
CHEMTREC

Section 2. Hazards Identification

Classification: N/A
Signal Word: N/A
Pictogram: N/A
Hazard Statements: Not classified as hazardous under 29CFR 1910.1200 (HazCom 2012)
Precautionary Statements
Response: N/A
Prevention: N/A
Storage: N/A
Disposal: N/A
General: If medical advice is needed, have product container or label at hand
Keep out of reach of children
Read label before use
Section 3. Ingredients

<table>
<thead>
<tr>
<th>CAS</th>
<th>Ingredient Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1314-13-2</td>
<td>Zinc Oxide</td>
<td>&lt; 75 %</td>
</tr>
</tbody>
</table>

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

- **Eye Contact**: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. If symptoms persist, contact a physician.
- **Skin Contact**: Remove product from the skin by washing with a mild soap and water. Contaminated clothing should be removed to prevent prolonged exposure. If product is injected under the skin, seek treatment immediately. If symptoms of exposure persist, contact a physician.
- **Inhalation**: If signs or symptoms of overexposure occur, remove the employee to fresh air. If symptoms persist, seek medical attention.
- **Ingestion**: If ingested, dilute stomach contents with two glasses of milk or water. (NOTE: Do NOT give anything by mouth to an unconscious person.) Do not induce vomiting without medical supervision. If vomiting occurs spontaneously, keep airway clear. If symptoms of ingestion persist, seek medical attention.
- **Note to Physician**: No further data known.

Section 5. Fire Fighting Measures

- **Suitable Extinguishing Media**: No data available.
- **Unsuitable Extinguishing Media**: Do not use water jet as an extinguisher, as this will spread the fire.
- **Unusual Fire & Explosion Hazards**: No further data known.
- **Firefighting Procedures and Equipment**: Emergency responders in the danger area should wear bunker gear and self-contained breathing apparatus for fires beyond the incipient stage. See Section 8 of the MSDS for other PPE to be worn as conditions warrant.

Section 6. Accidental Release Measures
Clean-up Measures

Important: As with any spill or leak, before responding ensure that you are familiar with the potential hazards and recommendations of the MSDS. Appropriate personal protective equipment must be worn. See Section 8 of this MSDS for PPE recommendations.

If possible, safely contain the spill with dikes or other spill response equipment appropriate for petroleum or organic material releases. Take measures to prevent spreading of product. Note that while product will ignite it will not readily burn. However, as a precaution eliminate ignition sources. Prevent from entering sewers or waterways. Large volumes may be transferred to an appropriate container for proper disposal. Small volumes or residues may be soaked up with absorbents. Spill response materials should be collected for proper disposal.

Section 7. Handling and Storage

Storage

Protect product quality by storing indoors and away from extreme temperatures. Close all containers when not in use.

Handling

As with any industrial chemical, handle the product in a manner that minimizes exposure to practicable levels. Prior to handling, consult Section 8 of this MSDS to evaluate personal protective equipment needs. Open containers slowly to relieve any pressure. Follow all other standard industrial hygiene practices.

Empty containers may contain product residue. All safety precautions taken when handling this product should also be taken when handling empty drums and containers. Keep containers closed when not in use.

Product residue in empty containers is combustible but will not readily burn. NOTE however, that excessive heating or cutting of empty containers may create an ignition source sufficient to start a fire and in extreme cases, cause an explosion.

Section 8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Occupational Exposure Limits</th>
<th>Ingredient Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Zinc Oxide</td>
<td>2 mg/m3 dust</td>
<td>5 mg/m3 dust</td>
<td>10 mg/m3</td>
</tr>
</tbody>
</table>

Personal Protective Equipment

Goggles, Gloves

Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

Eye Protection

Wear eye protection appropriate to prevent eye exposure. Where splashing is not likely, chemical safety glasses with side shields are recommended. Where splashing may occur, chemical goggles or full face shield is recommended.
Skin Protection

Gloves are not normally needed during normal conditions of use. If health effects are experienced, oil or chemical resistant gloves such as butyl or nitrile are recommended.

Where splashing or soaking is likely, wear oil or chemical resistant clothing to prevent exposure.

Respiratory Protection

A respirator may be worn to reduce exposure to vapors, dust, or mist. Select a NIOSH/MSHA approved respirator appropriate for the type and physical character of the airborne material. A self-contained breathing apparatus is recommended in all situations where airborne contaminant concentration has not been confirmed to be below safe levels. Respirator use should comply with the OSHA Respirator Protection Standard found in 29 CFR 1910.134.

Engineering Controls

Normal general ventilation is expected to be adequate. It is recommended that ventilation be designed in all instances to maintain airborne concentrations at lowest practicable levels. Ventilation should at a minimum, prevent airborne concentrations from exceeding any exposure limits listed in Section 2 of this MSDS.

The user may wish to refer to 29 CFR 1910.1000(d)(2) and the ACGIH "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indicies" (Appendix C) for the determination of exposure limits of mixtures. An industrial hygienist or similar professional may be consulted to confirm that the calculated exposure limits apply.

Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Semi-solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Partition coefficient Water/n-octanol</td>
<td>No data available</td>
</tr>
<tr>
<td>VOC%</td>
<td>N/A</td>
</tr>
<tr>
<td>Viscosity</td>
<td>&gt; 20.5 mm2/s (40C)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.35</td>
</tr>
<tr>
<td>Density lbs/Gal</td>
<td>N/A</td>
</tr>
<tr>
<td>Pounds per Cubic Foot</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash Point</td>
<td>500F 260C</td>
</tr>
<tr>
<td>FP Method</td>
<td>COC</td>
</tr>
<tr>
<td>Ph</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling Range</td>
<td>N/A</td>
</tr>
</tbody>
</table>
**Section 10. Stability and Reactivity**

- **Decomposition Products May Include**
  
  Thermal decomposition products are dependent on combustion conditions. A complex mixture of airborne solid, liquid, particulates and gasses may evolve when the material burns. Combustion byproducts may include: oxides of carbon, oxides of zinc, incompletely burned hydrocarbons as fumes and smoke.

- **Incompatibilities**
  
  This product is incompatible with strong oxidizing agents.

- **Conditions to Avoid**
  
  Avoid contact with incompatible materials and exposure to extreme temperatures.

- **Hazardous Polymerization**
  
  Not likely to occur.

- **Chemical Stability**
  
  Stable

**Section 11. Toxicological Information**

- **Ingestion**
  
  May be ingested by accident. Ingestion may cause irritation and malaise.

- **Inhalation**
  
  Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.

- **Skin Contact**
  
  Prolonged skin contact may cause redness and irritation.

- **Eye Contact**
  
  Eye contact is possible and should be avoided.

**Section 12. Ecological Information**

- **Environmental Fate**
  
  The degree of biodegradability and persistence of this product has not been determined.

- **Ecotoxicological Information**
  
  This product has not been evaluated for ecotoxicity. As with any industrial chemical, exposure to the environment should be prevented and minimized wherever possible.
Section 13. Disposal

Disposal instructions
Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. It is the responsibility of the product user or owner to determine at the time of disposal, which waste regulations must be applied.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport Information

UN Number
N/A

UN Proper Shipping Name
Not regulated

DOT Classification
Not regulated

Packing Group
Not regulated

Section 15. Regulatory Information

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
None present or none present in regulated quantities.

SARA 313 (TRI Reporting)
Chemical Identity: Zinc compound
Reporting threshold for other users: 10000 lbs
Reporting threshold for manufacturing and processing: 25000 lbs

Section 16. Other Information

Revision Date
12/22/2015

Disclaimer
The data contained herein is based upon information that Soudal Accumetric believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.