SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Swarcotherm Thermoplastic Marking Alkyd Formulation (All Colors)
PRODUCT USE: Thermoplastic Road Marking Compound

SUPPLIER/MANUFACTURER: Swarco Industries, Inc.
919 N. James Campbell Blvd.
Columbia, TN 38401
EMERGENCY: 1-800-535-5053
Website: www.swarco.com/americas

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:
Swarcotherm Thermoplastic is not considered to be hazardous by the EPA under 29 CFR 1910.1200.

GHS LABEL: WARNING

Hazard Statements
Contains greater than 0.1% crystalline silica, which is classified as a Group 1 carcinogen by IARC, a known carcinogen by NTP, OSHA and as an A2 suspected human carcinogen by ACGIH. Dust may cause irritation to the eyes. May cause irritation by the inhalation of dust. May cause an allergic skin reaction. Contact with material in a molten form can cause serious burns.

Precautionary Statements
Avoid breathing dust, wear a dust mask. Overexposure to dust may cause temporary irritation. Avoid breathing dust/fume/gas/vapors. Avoid all contact if an allergic reaction is evident. Use personal protective equipment as required.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate</td>
<td>471-34-1</td>
<td>30-50%</td>
</tr>
<tr>
<td>Glass Oxide; Glass</td>
<td>65997-17-3</td>
<td>30-50%</td>
</tr>
<tr>
<td>Maleic Modified Glycerol Rosin Ester</td>
<td>94581-16-4</td>
<td>10-25%</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>1-12%</td>
</tr>
<tr>
<td>Rosin Ester</td>
<td>8050-26-8</td>
<td>1-9%</td>
</tr>
<tr>
<td>Paraffinic Wax</td>
<td>9002-88-4</td>
<td>1-5%</td>
</tr>
<tr>
<td>EVA</td>
<td>24937-78-8</td>
<td>1-5%</td>
</tr>
<tr>
<td>Oil</td>
<td>Proprietary</td>
<td>1-5%</td>
</tr>
</tbody>
</table>

SECTION 4 - FIRST AID MEASURES

Contact with eyes: Remove contact lenses, if present and easy to do. Continue rinsing, irrigate copiously with clean, fresh water for at least 10 minutes, holding eyelids apart. Do not rub affected area.

Skin contact: Wash hands after handling and before eating. If skin irritation or rash occurs; get medical advice/attention. When exposed to molten or heated thermoplastic material, flush with cold water, do not attempt to remove product from the skin, seek medical attention if necessary.

Inhalation: If existing respiratory/conditions are aggravated in your use of this product, get to well ventilated area. If conditions persist seek medical advice/attention.
Ingestion: Rinse mouth with water (only if the person is conscious).

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water, CO2, Foam, Dry Chemical
Unsuitable Extinguishing Media: Strong oxidizing agents
Exposure Hazards: Carbon Monoxide
Combustion Products: None
Protection for Firefighters: Wear self contained breathing apparatus in the positive mode to avoid smoke and fumes.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: NONE for product at ambient temperature. Hot or molten thermoplastic may cause serious burns to unprotected skin.
Environmental precautions: None
Methods for Clean up: Allow material to solidify if molten. Collect material or scrape off surface.
Materials NOT to be used for Clean up: Strong oxidizing agents

SECTION 7 - HANDLING AND STORAGE

Handling: Do NOT use compressed air for cleaning surfaces or clothing. Avoid the release and swirl of dust.
   Wash hands after use. Do NOT eat, drink, or smoke in work areas.
Storage: Do NOT store at temperatures above 120°F.
   Store in a cool, dry place.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

Engineering Controls: Use in a well ventilated area.
Do NOT use compressed air for cleaning surfaces or clothing. Avoid the release and swirl of dust.
Wash hands after use. Do NOT eat, drink, or smoke in work areas.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Eye Protection: Face Shield / Safety glasses or goggles when molten
Skin Protection: Wear heat protective gloves when molten.
   Wear long sleeve shirts, long pants, hard soled shoes.
Respiratory Protection: Provide adequate ventilation. Use respirators when exposure exceeds acceptable limits.
   Use NIOSH/OSHA approved respiratory protection equipment in poorly ventilated areas.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Granular
Odor: Alkyd Oil
pH: N/A
Melting Point: 200°F (93°C) minimum
Boiling Point: N/A
Flash Point: >475°F
Specific Gravity: 2.3 max
Solubility: Negligible
Auto-ignition Temperature: N/A
VOC Content: HAPS Free
Odor Threshold: N/A
Boiling Range: N/A
Evaporation Rate: N/A
Vapor Pressure: N/A
Vapor Density: N/A

SECTION 10 - STABILITY AND REACTIVITY

Stability: stable at <475°F
Hazardous decomposition products: Carbon Monoxide, Carbon Dioxide
Conditions to avoid: Temperatures above 500°F
Incompatible Materials: Should not be brought into contact with strong oxidizing agents.

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Ingestion
Acute symptoms and effects: May cause an allergic skin reaction.
   Inhalation: Overexposure may cause temporary respiratory irritation.
   Eye Contact: Dust may cause irritation to the eyes.
   Skin Contact: May cause an allergic skin reaction.
   Ingestion: Shall NOT be classified as a specific target organ toxicant (STOT)
Chronic (long-term) effects: Contains greater than 0.1% crystalline silica, which can be inhaled and may have effects on the lungs, resulting in silicosis.

SECTION 12 - ECOLOGICAL INFORMATION
Ecotoxicity: Not classified as hazardous to the aquatic environment.
Mobility: Data not available
Degradability: Data not available
Bioaccumulation: Data not available

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS
Follow local and national regulations. Consult disposal expert.

SECTION 14 - TRANSPORT INFORMATION
Proper Shipping Name: NOT relevant
Hazard Class: NOT relevant
Secondary Risk: NOT relevant
Identification Number: NOT relevant
Packing Group: NOT relevant
Label Required: NOT relevant
Marine Pollutant: None (non-environmentally hazardous)

SECTION 15 - REGULATORY INFORMATION
Precautionary Label Information: See section 2
Ingredient Listings: See section 3
Symbols: See section 8
Risk Phrases: See section 2
Safety Phrases: See section 2

SECTION 16 - OTHER INFORMATION
Specification Information: Alkyd Thermoplastic (general)
Department issuing data sheet: Swarco Industries, Inc.; Columbia, TN
E-mail address: michael.jung@swarco.com
Training necessary:
Reissue date/reason for reissue: Revised Sections 2 and 11 to cover skin sensitization and carcinogenicity.
Intended Use of Product: Road Markings
Disclaimer: This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.