INDIUM CORPORATION OF AMERICA
EUROPE ASIA-PACIFIC INDIUM CORPORATION (SUZHOU)

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: HSMF
SDS Number: SDS-6026 Revised Date: 29 OCTOBER 2015
Product Use: INDUSTRIAL USE – HEAT TRANSFER MATERIAL. USE ONLY FOR ITS INTENDED PURPOSE.

MANUFACTURER:

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2. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY: CARCINOGEN LISTED IN:

<table>
<thead>
<tr>
<th>Eye</th>
<th>Inhalation</th>
<th>Skin</th>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

NTP IARC OSHA XNot Listed

GHS
Not hazardous under GHS

Precautionary statement(s)
P301 + P314 IF SWALLOWED: Get Medical advice/attention if you feel unwell
P305 + 351 IF IN EYES: Rinse continuously with water for several minutes (15 mins)

POTENTIAL HEALTH EFFECTS:

**Eye Contact:** Solid material does not pose a direct eye hazard.

**Ingestion:** Normal handling should not cause any adverse health effects.

**Inhalation:** Inhalation of fume may cause local irritation to the respiratory system.

**Skin Contact:** Normal handling should not cause any adverse health effects. If material melts it may cause irritation.

**Chronic:** Not established

**WARNING:** This product contains a chemical known to the State of California to cause cancer and/or birth defects (or other reproductive harm). (May contain trace levels of lead)

**NOTE:** The Indium Corporation does not recommend, manufacturer, market or endorse any of its products for human consumption.
3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>% wt</th>
<th>CAS Registry #/EINECS</th>
<th>PEL</th>
<th>TLV-TWA</th>
<th>TLV-STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>mg/m³</td>
<td>mg/m³</td>
<td>mg/m³</td>
</tr>
<tr>
<td>ALUMINUM FOIL</td>
<td>25-50</td>
<td>7429-90-5/231-072-3</td>
<td>15</td>
<td>10</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(EU)</td>
<td></td>
<td>-</td>
<td>10*</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>(Canada)</td>
<td></td>
<td>-</td>
<td>10</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>(Mexico)</td>
<td></td>
<td>-</td>
<td>5</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>PROPRIETARY COATING COMPOUND</td>
<td>50-75</td>
<td>1314-13-2</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
<tr>
<td>THERMAL GREASE MIXTURE</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Material is formed into a solid sheet for heat transfer purposes only. The material is not expected to melt or degrade as the heat transfer material (thermal interface material).

N.E. = Not established

4. FIRST AID MEASURES

**Eye Contact:** Hold eyelids apart and flush eyes with plenty of tepid water for at least 15 minutes. Seek medical attention if irritation persists.

**Ingestion:** If patient is conscious, ONLY induce vomiting as directed by trained personnel. NEVER give anything by mouth to an unconscious person. Seek medical attention immediately.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or oxygen by trained personnel. Seek immediate medical attention.

**Skin Contact:** Wash affected area with soap and water. Wash clothing before reuse. If irritation persists, obtain medical attention.

5. FIRE FIGHTING MEASURES

**Flash Point:** 565 F (296C) **Method:** Not established.

**Auto-ignition Temperature:** Not established.

**Flammable Limits:** Limits not established. Massive metal is not flammable.

**Extinguishing Media:** Use extinguishers appropriate for the surrounding fire conditions. Foam/Carbon Dioxide/Dry Chemical

**Special Fire Fighting Procedures:** Firefighters must wear NIOSH approved self-contained breathing apparatus and full protective clothing.
6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Solid material. Pick up and return to process. May have reclaim value.

7. HANDLING AND STORAGE

Handling Material is an article that can be picked up.

Precautions: 

Storage Precautions: Store product in a cool, dry area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation is recommended to control any air contaminants.

Personal protection:

Eyes: Chemical safety glasses/goggles.

Respirator: Not required when handling and working with this material.

Skin: Not expected to pose any hazard to the skin. Solid material.

Other: Avoid the use of contact lenses in high fume/dusty areas.

Work/Hygienic Practices: Maintain good housekeeping. Clean up spills immediately. Good personal hygiene is essential.

Avoid eating, smoking or drinking in the work area. Wash hands thoroughly with soap and water immediately upon leaving the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid gray material in flat sheets

Boiling Point: Not applicable.

Odor: Odorless

Melting Point: Not available

Specific Gravity: 2.7

pH: Not applicable

Vapor Pressure: <0.1mm Hg

Solubility in Water: Insoluble

Vapor Density: (air=1) Not applicable.

10. STABILITY AND REACTIVITY

General: Stable.

Conditions to Avoid: Not established.

Incompatible Materials: Avoid contact with strong oxidizing agents.

Hazardous Decomposition / Combustion: Harmful organic fumes and toxic oxide fumes may form at elevated temperatures.

Hazardous Polymerization: Will not occur.
11. TOXICOLOGICAL INFORMATION

Carcinogenicity:
National Toxicity Program (NTP): No
Occupational Safety & Health Administration (OSHA): No
U.N. International Agency for Research on Cancer (IARC): No

LD50: Not established  LC50: Not established
Other: None

12. ECOLOGICAL INFORMATION

Product mix not tested.

13. DISPOSAL CONSIDERATION

Waste Disposal Method: Scrap metal alloy usually has value. Contact a commercial reclaimer for recycling. Otherwise, dispose of in accordance with all Federal, State and Local environmental regulations. In Europe follow the Special Waste Regulations.

14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements.

Not regulated under US DOT (United States Department of Transportation) (IATA), (IMDG).


Solid material not hazardous under transportation.

15. REGULATORY INFORMATION

The information in this Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated hereunder (29 CFR 1910.1200 ET. SEQ.).

California PROP 65: WARNING: This product contains a chemical known to the State of California to cause cancer and/or birth defects (or other reproductive harm). (May contain trace levels of lead).

SARA 313 Listing - 40 CFR 372.65: aluminum (fume/dust) only

All ingredients are listed on the EPA TSCA Inventory.
All ingredients are listed on the Canadian Domestic Substance List.

16. OTHER INFORMATION

    HMIS Hazard Rating:

        Health: 1
        Fire: 0
        Reactivity: 0

    Revised Date: 29 OCTOBER 2015
    Prepared by: Nancy Swarts, Indium Corporation of America
    Approved by: Nancy Swarts, Indium Corporation of America

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