1 Identification

· Product name: Mold Release, Powder (Hot Mounting)
· Part number: 200-10100, 200-10110
· CAS Number:
  557-05-1
· EC number:
  209-151-9

· Application of the substance / the mixture Releasing agent
· Details of the supplier of the safety data sheet
· Manufacturer/Supplier:
  Allied High Tech Products Inc.
  2376 East Pacifica Place
  USA-RANCHO DOMINGUEZ, CA 90220
  USA
  info@alliedhightech.com
· Information department: Product safety department
· Emergency telephone number:
  During normal opening times: +1 (310) 635-2466
  Chemtrec: +1 (202) 483-7616

2 Hazard(s) identification

· Classification of the substance or mixture

![GHS07]

Acute Tox. 4 H312 Harmful in contact with skin.

· Label elements
· GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).
· Hazard pictograms

![GHS07]

· Signal word Warning
· Hazard-determining components of labeling:
  zinc distearate, pure
· Hazard statements
  Harmful in contact with skin.
· Precautionary statements
  Wear protective gloves / protective clothing.

(Contd. on page 2)
Product name: Mold Release, Powder (Hot Mounting)

If on skin: Wash with plenty of water.
Call a poison center/doctor if you feel unwell.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:
  · NFPA ratings (scale 0 - 4)
    Health = 1
    Fire = 1
    Reactivity = 0

· HMIS-ratings (scale 0 - 4)
  HEALTH 1
  FIRE 1
  REACTIVITY 0

· Other hazards
  · Results of PBT and vPvB assessment
    · PBT: Not applicable.
    · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Substances
  · CAS No. Description
    557-05-1 zinc distearate, pure
  · Identification number(s)
    · EC number: 209-151-9

4 First-aid measures

· Description of first aid measures
  · General information:
    Immediately remove any clothing soiled by the product.
    Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  · After inhalation: Supply fresh air; consult doctor in case of complaints.
  · After skin contact: Immediately rinse with water.
  · After eye contact: Rinse opened eye for several minutes under running water.
  · After swallowing: If symptoms persist consult doctor.
  · Information for doctor:
    · Most important symptoms and effects, both acute and delayed: Coughing
    · Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-fighting measures

· Extinguishing media
  · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
  · Special hazards arising from the substance or mixture: No further relevant information available.
· Advice for firefighters
  · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures: Not required.
· Environmental precautions: No special measures required.
· Methods and material for containment and cleaning up:
  Pick up mechanically.
  Dispose contaminated material as waste according to item 13.
Product name: Mold Release, Powder (Hot Mounting)

· Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

<table>
<thead>
<tr>
<th>PAC</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAC-1</td>
<td>30 mg/m³</td>
</tr>
<tr>
<td>PAC-2</td>
<td>330 mg/m³</td>
</tr>
<tr>
<td>PAC-3</td>
<td>2,000 mg/m³</td>
</tr>
</tbody>
</table>

7 Handling and storage

· Handling:
  · Precautions for safe handling: No special precautions are necessary if used correctly.
  · Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

· Storage:
  · Requirements to be met by storerooms and receptacles:
    Store in a cool location.
    No special requirements.
  · Information about storage in one common storage facility: Not required.
  · Further information about storage conditions: None.
  · Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>Limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>557-05-1 zinc distearate, pure</td>
<td>Long-term value: 15* 5** mg/m³&lt;br&gt;<em>total dust <em><em>respirable fraction&lt;br&gt;Long-term value: 10</em> 5</em></em> mg/m³&lt;br&gt;*total dust **respirable fraction&lt;br&gt;Long-term value: 10 mg/m³</td>
</tr>
</tbody>
</table>

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls
  · Personal protective equipment:
    · General protective and hygienic measures:
      Immediately remove all soiled and contaminated clothing.
      Wash hands before breaks and at the end of work.
      Avoid contact with the eyes and skin.
    · Breathing equipment:
      Not required.
      Use suitable respiratory protective device in case of insufficient ventilation.
  · Protection of hands:
    Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Protective gloves
Product name: Mold Release, Powder (Hot Mounting)

(Contd. of page 3)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves**
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Not required.

### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>· Information on basic physical and chemical properties</strong></td>
<td></td>
</tr>
<tr>
<td><strong>· General Information</strong></td>
<td></td>
</tr>
<tr>
<td><strong>· Appearance:</strong></td>
<td>Powder</td>
</tr>
<tr>
<td>Form:</td>
<td></td>
</tr>
<tr>
<td>Color:</td>
<td>White</td>
</tr>
<tr>
<td>Odor:</td>
<td>Mild</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>· pH-value:</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>· Change in condition</strong></td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range:</td>
<td>130 °C (266 °F)</td>
</tr>
<tr>
<td>Boiling point/Boiling range:</td>
<td>Undetermined.</td>
</tr>
<tr>
<td><strong>· Flash point:</strong></td>
<td>277 °C (530.6 °F)</td>
</tr>
<tr>
<td><strong>· Flammability (solid, gaseous):</strong></td>
<td>Product is not flammable.</td>
</tr>
<tr>
<td><strong>· Ignition temperature:</strong></td>
<td>420 °C (788 °F)</td>
</tr>
<tr>
<td><strong>· Decomposition temperature:</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>· Auto igniting:</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>· Danger of explosion:</strong></td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td><strong>· Explosion limits:</strong></td>
<td></td>
</tr>
<tr>
<td>Lower:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper:</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>· Vapor pressure:</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>· Density at 20 °C (68 °F):</strong></td>
<td>1.09 g/cm³ (9.09605 lbs/gal)</td>
</tr>
<tr>
<td><strong>· Bulk density:</strong></td>
<td>100 kg/m³</td>
</tr>
<tr>
<td><strong>· Relative density</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>· Vapor density</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>· Specific gravity:</strong></td>
<td>&gt;1.00 (Water = 1)</td>
</tr>
<tr>
<td><strong>· Evaporation rate</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>· Solubility in / Miscibility with Water:</strong></td>
<td>Insoluble.</td>
</tr>
<tr>
<td><strong>· Partition coefficient (n-octanol/water):</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>· Viscosity:</strong></td>
<td></td>
</tr>
<tr>
<td>Dynamic:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Kinematic:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>VOC content:</td>
<td>0.00 %</td>
</tr>
<tr>
<td><strong>· Solids content:</strong></td>
<td>100.0 %</td>
</tr>
<tr>
<td><strong>· Other information</strong></td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>
10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  - Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid
  - Keep away from sources of ignition - No smoking.
  - Keep away from oxidising agents and acidic substances.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products:
  - Zinc oxide
  - Carbon monoxide and carbon dioxide
- Additional information: Hazardous decomposition products may form during combustion.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values that are relevant for classification:
    - ATE (Acute Toxicity Estimate)
      - Oral LD50: 5,000 mg/kg (rat)
      - Dermal LD50: 2,000 mg/kg (rabbit)
    - 557-05-1 zinc distearate, pure
      - Oral LD50: 5,000 mg/kg (rat)
      - Dermal LD50: 2,000 mg/kg (rabbit)
- Primary chemical irritant effect:
  - on the skin: No irritant effect.
  - on the eye: No irritating effect.
  - Sensitization: No sensitizing effects known.
- Additional toxicological information:
  - Abrasive eye irritant
  - Abrasive skin irritant
- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    - Substance is not listed.
  - NTP (National Toxicology Program)
    - Substance is not listed.
  - OSHA-Ca (Occupational Safety & Health Administration)
    - Substance is not listed.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
- Additional ecological information:
- General notes:
  - Water hazard class 1 (Assessment by list): slightly hazardous for water
  - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

(Contd. on page 6)
Product name: Mold Release, Powder (Hot Mounting)

· **Results of PBT and vPvB assessment**
  · **PBT**: Not applicable.
  · **vPvB**: Not applicable.
· **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

· Waste treatment methods
  · **Recommendation**: Contact waste processors for recycling information.
· Uncleaned packagings:
  · **Recommendation**: Disposal must be made according to official regulations.

### 14 Transport information

| · **UN-Number** | not regulated |
| · **DOT, ADN, IMDG, IATA** | not regulated |
| · **UN proper shipping name** | not regulated |
| · **DOT, ADN, IMDG, IATA** | not regulated |
| · **Transport hazard class(es)** | not regulated |
| · **DOT, ADN, IMDG, IATA** | not regulated |
| · **Class** | not regulated |
| · **Packing group** | not regulated |
| · **DOT, IMDG, IATA** | not regulated |
| · **Environmental hazards:** | No |
| · **Marine pollutant:** | |
| · **Special precautions for user** | Not applicable. |
| · **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** | Not applicable. |
| · **UN "Model Regulation"** | not regulated |

### 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
  · **Sara**
    · **Section 355 (extremely hazardous substances):**
      Substance is not listed.
    · **Section 313 (Specific toxic chemical listings):**
      Substance is listed.
    · **TSCA (Toxic Substances Control Act):**
      [ACTIVE]
· **Hazardous Air Pollutants**
  Substance is not listed.
· **Proposition 65**
  · **Chemicals known to cause cancer:**
    Substance is not listed.
  · **Chemicals known to cause reproductive toxicity for females:**
    Substance is not listed.
  · **Chemicals known to cause reproductive toxicity for males:**
    Substance is not listed.

(Contd. on page 7)
Product name: Mold Release, Powder (Hot Mounting)

- Chemicals known to cause developmental toxicity:
  Substance is not listed.

- Carcinogenic categories

  - EPA (Environmental Protection Agency)
    D, I, II

  - TLV (Threshold Limit Value established by ACGIH)
    Substance is not listed.

  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    Substance is not listed.

  - Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Environment protection department.
- **Contact:** Kim Dermit
- **Last revision:** 05/01/2020 / 1.0

### Abbreviations and acronyms:

- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- Acute Tox. 4: Acute toxicity – Category 4