1 Identification

- **Product name:** Mold Release Spray, Silicone (Hot Mounting)
- **Part number:** 200-10005
- **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**

  ![GHS02 Flame]

  *Flam. Aerosol 1 H222* Extremely flammable aerosol.

  ![GHS08 Health hazard]

  *Carc. 2 H351* Suspected of causing cancer.
  *STOT RE 2 H373* May cause damage to the central nervous system through prolonged or repeated exposure.
  *Asp. Tox. 1 H304* May be fatal if swallowed and enters airways.

  ![GHS07]

  *Skin Irrit. 2 H315* Causes skin irritation.
  *Eye Irrit. 2A H319* Causes serious eye irritation.

- **Label elements**
  - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

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

- **Hazard pictograms**
  - GHS02
  - GHS07
  - GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  Stoddard solvent
  ethylbenzene

- **Hazard statements**
  Extremely flammable aerosol.
  Causes skin irritation.
  Causes serious eye irritation.
  Suspected of causing cancer.
  May cause damage to the central nervous system through prolonged or repeated exposure.
  May be fatal if swallowed and enters airways.

- **Precautionary statements**
  Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  Do not spray on an open flame or other ignition source.
  Pressurized container: Do not pierce or burn, even after use.
  Do not breathe dust/fume/gas/mist/vapors/spray.
  Wash thoroughly after handling.
  Wear protective gloves/protective clothing/eye protection/face protection.
  If swallowed: Immediately call a poison center/doctor.
  Specific treatment (see on this label).
  Do NOT induce vomiting.
  If on skin: Wash with plenty of water.
  If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
  Continue rinsing.
  IF exposed or concerned: Get medical advice/attention.
  Get medical advice/attention if you feel unwell.
  Take off contaminated clothing and wash it before reuse.
  If skin irritation occurs: Get medical advice/attention.
  If eye irritation persists: Get medical advice/attention.
  Store locked up.
  Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
  - **NFPA ratings (scale 0 - 4)**
    - Health = 2
    - Fire = 0
    - Reactivity = 3
  - **HMIS-ratings (scale 0 - 4)**
    - Health = 2
    - Fire = 0
    - Reactivity = 3
Product name: Mold Release Spray, Silicone (Hot Mounting)

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

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Hazardous Components:</th>
</tr>
</thead>
<tbody>
<tr>
<td>74-98-6 propane</td>
</tr>
<tr>
<td>Flam. Gas 1, H220; Press. Gas, H280</td>
</tr>
<tr>
<td>10-25%</td>
</tr>
<tr>
<td>8052-41-3 Stoddard solvent</td>
</tr>
<tr>
<td>Flam. Liq. 3, H226; STOT RE 1, H372; Asp. Tox. 1, H304</td>
</tr>
<tr>
<td>2.5-10%</td>
</tr>
<tr>
<td>1330-20-7 xylene</td>
</tr>
<tr>
<td>Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315</td>
</tr>
<tr>
<td>≤2.5%</td>
</tr>
<tr>
<td>100-41-4 ethylbenzene</td>
</tr>
<tr>
<td>Flam. Liq. 2, H225; Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332</td>
</tr>
<tr>
<td>≤2.5%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non-hazardous Components:</th>
</tr>
</thead>
<tbody>
<tr>
<td>90622-56-3 Alkanes, C7-10-iso-</td>
</tr>
<tr>
<td>50-100%</td>
</tr>
<tr>
<td>Resin</td>
</tr>
<tr>
<td>2.5-10%</td>
</tr>
</tbody>
</table>

4 First-aid measures

- Description of first aid measures
- General information:
  Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
  Most important symptoms and effects, both acute and delayed
  Headache
  Dizziness
  Unconsciousness
  Breathing difficulty
  Disorientation
  Nausea
- 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.
Product name: Mold Release Spray, Silicone (Hot Mounting)

- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters: No special measures required.
- Protective equipment: No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:**
  Do not allow product to reach sewage system or any water course.
  Do not allow to enter sewers/surface or ground water.

- **Methods and material for containment and cleaning up:**
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.

- **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

#### PAC-1:
- 74-98-6 propane 5500* ppm
- 1330-20-7 xylene 130 ppm
- 100-41-4 ethylbenzene 33 ppm

#### PAC-2:
- 74-98-6 propane 17000** ppm
- 1330-20-7 xylene 920* ppm
- 100-41-4 ethylbenzene 1100* ppm

#### PAC-3:
- 74-98-6 propane 33000*** ppm
- 1330-20-7 xylene 2500* ppm
- 100-41-4 ethylbenzene 1800* ppm

## 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling** No special precautions are necessary if used correctly.
  - **Information about protection against explosions and fires:**
    Do not spray on a naked flame or any incandescent material.
    Keep ignition sources away - Do not smoke.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**
  - **Requirements to be met by storerooms and receptacles:**
    Store at temperatures not exceeding 50°C.
    Observe official regulations on storing packagings with pressurized containers.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:**
    Keep receptacle tightly sealed.
    Store receptacle in a well ventilated area.
### 8 Exposure controls/personal protection

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

#### Control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>PEL Long-term value</th>
<th>REL Long-term value</th>
<th>Ceiling limit value</th>
<th>TLV Long-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>propane</td>
<td>1800 mg/m³, 1000 ppm</td>
<td>1800 mg/m³, 1000 ppm</td>
<td>1800* mg/m³*15-min</td>
<td>525 mg/m³, 100 ppm</td>
</tr>
<tr>
<td>Stoddard solvent</td>
<td>2900 mg/m³, 500 ppm</td>
<td>350 mg/m³</td>
<td>1800* mg/m³*15-min</td>
<td>525 mg/m³, 100 ppm</td>
</tr>
<tr>
<td>xylene</td>
<td>435 mg/m³, 100 ppm</td>
<td>655 mg/m³, 150 ppm</td>
<td>651 mg/m³, 150 ppm</td>
<td>87 mg/m³, 20 ppm</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>435 mg/m³, 100 ppm</td>
<td>545 mg/m³, 125 ppm</td>
<td>87 mg/m³, 20 ppm</td>
<td>0.7 g/g creatinine</td>
</tr>
</tbody>
</table>

#### Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>Component</th>
<th>BEI</th>
<th>Medium</th>
<th>Time</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene</td>
<td>1.5 g/g creatinine</td>
<td>urine</td>
<td>end of shift</td>
<td>Methylhippuric acids</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>0.7 g/g creatinine</td>
<td>urine</td>
<td>end of shift at end of workweek</td>
<td>Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)</td>
</tr>
</tbody>
</table>

*BEI: Biological Exposure Index*
Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.

Breathing equipment: Use suitable respiratory protective device when high concentrations are present.

Protection of hands:
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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:

Protective gloves

Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:
Form: Aerosol
Color: Colorless
Odor: Mild
Odor threshold: Not determined.

pH-value: Not determined.

Change in condition
Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Not applicable, as aerosol.

Flash point: Not applicable, as aerosol.

Flammability (solid, gaseous): Not applicable.

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting.
**Product name:** Mold Release Spray, Silicone (Hot Mounting)

<table>
<thead>
<tr>
<th><strong>Danger of explosion:</strong></th>
<th>Not determined.</th>
</tr>
</thead>
<tbody>
<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 at 20 °C (68 °F):</strong></td>
<td>2,666 hPa (1,999.7 mm Hg)</td>
</tr>
<tr>
<td><strong>Density:</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Specific gravity:</strong></td>
<td>0.712</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>Not miscible or difficult to mix.</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 determined.</td>
</tr>
<tr>
<td>Kinematic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Solvent content:</strong></td>
<td></td>
</tr>
<tr>
<td>Organic solvents:</td>
<td>22.5 %</td>
</tr>
<tr>
<td>VOC content:</td>
<td>22.54 %</td>
</tr>
<tr>
<td></td>
<td>225.4 g/l / 1.88 lb/gl</td>
</tr>
<tr>
<td><strong>Solids content:</strong></td>
<td>73.9 %</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 oxidising agents and acidic substances.
    - Keep away from heat.
    - Keep away from open flames. - No smoking.
  - **Incompatible materials:** No further relevant information available.
  - **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
  - **LD/LC50 values that are relevant for classification:**
    - **1330-20-7 xylene**
      - Oral LD50: 4,300 mg/kg (rat)
      - Dermal LD50: >2,000 mg/kg (rabbit)
      - Inhalative LC50/4 h: 11 mg/l (ATE)
Product name: Mold Release Spray, Silicone (Hot Mounting)

100-41-4 ethylbenzene

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>3,500 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
<td>17,800 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50/4 h</td>
<td>11 mg/l (ATE)</td>
</tr>
</tbody>
</table>

· Primary chemical irritant effect:
  · on the skin: Irritant to skin and mucous membranes.
  · on the eye: Irritating effect.
  · Sensitization: No sensitizing effects known.

· Additional toxicological information:
  · Carcinogenic categories
    · IARC (International Agency for Research on Cancer)
      1330-20-7 xylene 3
      100-41-4 ethylbenzene 2B
    · NTP (National Toxicology Program)
      None of the ingredients is listed.
    · OSHA-Ca (Occupational Safety & Health Administration)
      None of the ingredients is 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 (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· 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
  · DOT, IMDG, IATA UN1950
Product name: Mold Release Spray, Silicone (Hot Mounting)

- UN proper shipping name
  - DOT: Aerosols, flammable
  - IMDG: AEROSOLS
  - IATA: AEROSOLS, flammable

- Transport hazard class(es)
  - DOT
    - Class: 2.1
    - Label: 2.1
  - IMDG, IATA
    - Class: 2.1
    - Label: 2.1

- Packing group
  - DOT, IMDG, IATA: not regulated

- Environmental hazards:
  - Marine pollutant: No

- Special precautions for user
  - Warning: Gases
  - Danger code (Kemler): -
  - EMS Number: F-D,S-U
  - Stowage Code
    - SW1 Protected from sources of heat.
    - SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

- Segregation Code
  - SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  - Not applicable.

- Transport/Additional information:
  - DOT
    - Quantity limitations
      - On passenger aircraft/rail: 75 kg
      - On cargo aircraft only: 150 kg
  - IMDG
    - Limited quantities (LQ) 1L
Product name: Mold Release Spray, Silicone (Hot Mounting)

- **Excepted quantities (EQ)**
  - Code: E0
  - Not permitted as Excepted Quantity

- **UN "Model Regulation":**
  - UN 1950 AEROSOLS, 2.1

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
  - **Section 355 (extremely hazardous substances):**
    - None of the ingredients is listed.
  - **Section 313 (Specific toxic chemical listings):**
    - 1330-20-7 xylene
    - 100-41-4 ethylbenzene

- **TSCA (Toxic Substances Control Act):**
  - 74-98-6 propane
  - 1330-20-7 xylene
  - 100-41-4 ethylbenzene

- **TSCA new (21st Century Act) (Substances not listed)**
  - 90622-56-3 Alkanes, C7-10-iso-
    - Resin
  - 8052-41-3 Stoddard solvent

- **Proposition 65**
  - **Chemicals known to cause cancer:**
    - 100-41-4 ethylbenzene

- **Chemicals known to cause reproductive toxicity for females:***
  - None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:***
  - None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**
  - None of the ingredients is listed.

- **Carcinogenic categories**
  - **EPA (Environmental Protection Agency)**
    - 1330-20-7 xylene
    - 100-41-4 ethylbenzene
  - **TLV (Threshold Limit Value established by ACGIH)**
    - 1330-20-7 xylene
    - 100-41-4 ethylbenzene
  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    - None of the ingredients is listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
16 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 Dermitt
· Date of preparation / last revision 06/14/2018 / -
· Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  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
  ELINCS: European List of Notified 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
  BEI: Biological Exposure Limit
  Flam. Gas 1: Flammable gases – Category 1
  Flam. Aerosol 1: Aerosols – Category 1
  Press. Gas: Gases under pressure – Compressed gas
  Flam. Liq. 2: Flammable liquids – Category 2
  Flam. Liq. 3: Flammable liquids – Category 3
  Acute Tox. 4: Acute toxicity – Category 4
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  Carc. 2: Carcinogenicity – Category 2
  Carc. 2: Carcinogenicity – Category 2
  STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
  STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
  Asp. Tox. 1: Aspiration hazard – Category 1