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 1 H372 Causes damage to the central nervous system through prolonged or repeated exposure.
  Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

  GHS07
  STOT SE 3 H336 May cause drowsiness or dizziness.

· Label elements
· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
Product name: Mold Release Spray, Silicone (Hot Mounting)

- **Hazard pictograms**
  ![Pictograms](image)
  GHS02  GHS07  GHS08

- **Signal word** Danger

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

- **Hazard statements**
  - Extremely flammable aerosol.
  - Suspected of causing cancer.
  - May cause drowsiness or dizziness.
  - Causes 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.
  - Do not eat, drink or smoke when using this product.
  - Use only outdoors or in a well-ventilated area.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - If swallowed: Immediately call a poison center/docotor.
  - Do NOT induce vomiting.
  - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - IF exposed or concerned: Get medical advice/attention.
  - Call a poison center/docotor if you feel unwell.
  - Get medical advice/attention if you feel unwell.
  - Store in a well-ventilated place. Keep container tightly closed.
  - 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)**
    ![NFPA.png](image)
    - Health = 0
    - Fire = 0
    - Reactivity = 3

  - **HMIS-ratings (scale 0 - 4)**
    ![HMIS.png](image)
    - Health = 0
    - Fire = 0
    - Reactivity = 3

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

(Contd. on page 3)
Safety Data Sheet
acc. to OSHA HCS

Printing date 05/01/2020
Version 3.0
Last revision 05/01/2020

Product name: Mold Release Spray, Silicone (Hot Mounting)

(Contd. of page 2)

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>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>74-98-6 propane</td>
<td>10-25%</td>
</tr>
<tr>
<td></td>
<td>Flm. Gas 1, H220; Press. Gas, H280</td>
</tr>
<tr>
<td>8052-41-3 Stoddard solvent</td>
<td>≥1-&lt;10%</td>
</tr>
<tr>
<td></td>
<td>Flm. Liq. 3, H226; STOT RE 1, H372; Asp. Tox. 1, H304</td>
</tr>
<tr>
<td>100-41-4 ethylbenzene</td>
<td>≥0.1-&lt;1%</td>
</tr>
<tr>
<td></td>
<td>Flm. Liq. 2, H225; Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332</td>
</tr>
<tr>
<td>1330-20-7 xylene</td>
<td>≤1%</td>
</tr>
<tr>
<td></td>
<td>Flm. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non-hazardous Components:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>90622-56-3 Alkanes, C7-10-iso-</td>
<td>50-100%</td>
</tr>
<tr>
<td>Resin</td>
<td>1-10%</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: Supply fresh air; consult doctor in case of complaints.
· After skin contact: Generally the product does not irritate the skin.
· 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
    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.
· Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.
· Advice for firefighters
  · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures
  Mount respiratory protective device.
  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.

(Contd. on page 4)
Product name: Mold Release Spray, Silicone (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-1:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>74-98-6 propane</td>
<td>5500* ppm</td>
</tr>
<tr>
<td>8052-41-3 Stoddard solvent</td>
<td>300 mg/m³</td>
</tr>
<tr>
<td>100-41-4 ethylbenzene</td>
<td>33 ppm</td>
</tr>
<tr>
<td>1330-20-7 xylene</td>
<td>130 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-2:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>74-98-6 propane</td>
<td>17000** ppm</td>
</tr>
<tr>
<td>8052-41-3 Stoddard solvent</td>
<td>1800 mg/m³</td>
</tr>
<tr>
<td>100-41-4 ethylbenzene</td>
<td>1100* ppm</td>
</tr>
<tr>
<td>1330-20-7 xylene</td>
<td>920* ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-3:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>74-98-6 propane</td>
<td>3300*** ppm</td>
</tr>
<tr>
<td>8052-41-3 Stoddard solvent</td>
<td>29500** mg/m³</td>
</tr>
<tr>
<td>100-41-4 ethylbenzene</td>
<td>1800* ppm</td>
</tr>
<tr>
<td>1330-20-7 xylene</td>
<td>2500* ppm</td>
</tr>
</tbody>
</table>

- Handling:
- Precautions for safe handling: Open and handle receptacle with care.
- 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.
  Keep respiratory protective device available.

- 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.
- Specific end use(s): No further relevant information available.

- Exposure controls/personal protection

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

- Control parameters

<table>
<thead>
<tr>
<th>Components with limit values that require monitoring at the workplace:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>74-98-6 propane</td>
<td></td>
</tr>
<tr>
<td>PEL</td>
<td>Long-term value: 1800 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td>REL</td>
<td>Long-term value: 1800 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td>TLV</td>
<td>Simple asphyxiant</td>
</tr>
</tbody>
</table>

(Contd. on page 3)
Product name: Mold Release Spray, Silicone (Hot Mounting)

8052-41-3 Stoddard solvent

<table>
<thead>
<tr>
<th>PEL</th>
<th>Long-term value: 2900 mg/m³, 500 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL</td>
<td>Long-term value: 350 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Ceiling limit value: 1800* mg/m³</td>
</tr>
<tr>
<td></td>
<td>*15-min</td>
</tr>
<tr>
<td>TLV</td>
<td>Long-term value: 525 mg/m³, 100 ppm</td>
</tr>
</tbody>
</table>

100-41-4 ethylbenzene

<table>
<thead>
<tr>
<th>PEL</th>
<th>Long-term value: 435 mg/m³, 100 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL</td>
<td>Short-term value: 545 mg/m³, 125 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 435 mg/m³, 100 ppm</td>
</tr>
<tr>
<td>TLV</td>
<td>Long-term value: 87 mg/m³, 20 ppm</td>
</tr>
<tr>
<td>BEI</td>
<td></td>
</tr>
</tbody>
</table>

1330-20-7 xylene

<table>
<thead>
<tr>
<th>PEL</th>
<th>Long-term value: 435 mg/m³, 100 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL</td>
<td>Short-term value: 655 mg/m³, 150 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 435 mg/m³, 100 ppm</td>
</tr>
<tr>
<td>TLV</td>
<td>Short-term value: 651 mg/m³, 150 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 434 mg/m³, 100 ppm</td>
</tr>
<tr>
<td>BEI</td>
<td></td>
</tr>
</tbody>
</table>

Ingredient with biological limit values:

100-41-4 ethylbenzene

BEI 0.7 g/g creatinine

<table>
<thead>
<tr>
<th>Medium</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>urine</td>
<td>Time: end of shift at end of workweek</td>
</tr>
<tr>
<td></td>
<td>Parameter: Sum of mandelic acid and phenylglyoxyl acid (nonspecific, semi-quantitative)</td>
</tr>
</tbody>
</table>


1330-20-7 xylene

BEI 1.5 g/g creatinine

<table>
<thead>
<tr>
<th>Medium</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>urine</td>
<td>Time: end of shift</td>
</tr>
<tr>
<td></td>
<td>Parameter: Methylhippuric acids</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:

Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Store protective clothing separately.

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.

Protective gloves

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

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

· 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:
  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.
  · Danger of explosion: Not determined.
  · Explosion limits:
    Lower: Not determined.
    Upper: Not determined.
  · Vapor pressure at 20 °C (68 °F): 2,666 hPa (266 mm Hg)
  · Density:
    Relative density: Not determined.
    Vapor density: Not determined.
    Specific gravity: 0.712
    Evaporation rate: Not applicable.
  · Solubility in / Miscibility with
    Water: Not miscible or difficult to mix.
  · Partition coefficient (n-octanol/water): Not determined.
  · Viscosity:
    Dynamic: Not determined.
    Kinematic: Not determined.
  · Solvent content:
    Organic solvents: 22.5 %
    VOC content: 22.54 %
    225.4 g/l / 1.88 lb/gal

(Contd. of page 7)
Product name: Mold Release Spray, Silicone (Hot Mounting)

| Solids content: | 73.9 % |
| Other information | No further relevant information available. |

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:**
      - **100-41-4 ethylbenzene**
        - Oral LD50: 3,500 mg/kg (rat)
        - Dermal LD50: 17,800 mg/kg (rabbit)
        - Inhalative LC50/4 h: 11 mg/l (ATE)
      - **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)
  - **Primary chemical irritant effect:**
  - **on the skin**: No irritant effect.
  - **on the eye**: No irritating effect.
  - **Sensitization**: No sensitizing effects known.
  - **Additional toxicological information:**
    - Specific Target Organ Toxicity - Single Exposure 3 - Target Organ: central nervous system depression
  - **Carcinogenic categories**
    - **IARC (International Agency for Research on Cancer)**
      - 100-41-4 ethylbenzene: 2B
      - 1330-20-7 xylene: 3
  - **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.
Product name: Mold Release Spray, Silicone (Hot Mounting)

- 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
- 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
  - Hazard identification number (Kepler code): Warning: Gases
  - EMS Number: F-D,S-U
  - Stowage Code SW1 Protected from sources of heat.
  - SW2 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.
Product name: Mold Release Spray, Silicone (Hot Mounting)

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
- Limited quantities (LQ)
  1L
- Transport category
  2
- Tunnel restriction code
  D

IMDG
- Limited quantities (LQ)
  1L
- 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):
100-41-4 ethylbenzene
1330-20-7 xylene

TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.

Hazardous Air Pollutants
100-41-4 ethylbenzene
1330-20-7 xylene

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)
100-41-4 ethylbenzene D
1330-20-7 xylene I

TLV (Threshold Limit Value established by ACGIH)
100-41-4 ethylbenzene A3
1330-20-7 xylene A4

(Contd. of page 10)
Product name: Mold Release Spray, Silicone (Hot Mounting)

- 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 Dermit
- Last revision: 05/01/2020 / 2.0
- 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
  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
  Carc. 2: Carcinogenicity – Category 2
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  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