SAFETY DATA SHEET

Section 1: Identification

Product identifier used on the label;

Product name: Air-activated heating packs of various styles
(Handwarmers, hand warmers, body warmers, foot warmers, insole
foot warmers, toe warmers, pocket warmers, super warmers, seat
warmers, clothing adhesive warmers, biodegradable warmers, shipping
warmers, and food warmers.)

Other means of identification;

Heating pad wrapped in plastic film, Air-activated disposable warmers

Recommended use of the chemical and restrictions on use;

Recommended use: Air-Activated Disposable Warmer
Restrictions on use: No Applicable Information Available

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible
party;

Name: Heatmax Inc
Department in Charge: Consumer Relations Dept.
Address: 245 Kraft drive, Dalton, GA 30721, USA
Telephone number: 7062261800
Fax number: 7065297705
e-mail address: kcp_compliance@kobayashi.com

Emergency phone number

7062261800

Section 2: Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Physical Hazards
Not classified

Health Hazards
Not classified

Environmental Hazards
Not classified

Other Hazards
No Applicable Information Available

Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with
paragraph (f) of §1910.1200;

Symbol(s) No Applicable Information Available
Air-activated heating packs of various styles
Heatmax Inc
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Date of issue: April 10, 2015

Signal word
No Applicable Information Available

Hazard Statement(s)
No Applicable Information Available

Precautionary Statement(s)
No Applicable Information Available

Description of any hazards not otherwise classified;
General caution: powdered materials may ignite, under certain conditions.
May generate heat if the contents removed from the bag.

Ingredient with unknown acute toxicity in the mixture
No Applicable Information Available

Section 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Concentration/concentration ranges (wt %)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron powder</td>
<td>7439-89-6</td>
<td>50-60</td>
</tr>
<tr>
<td>Activated charcoal</td>
<td>7440-44-0</td>
<td>5-10</td>
</tr>
<tr>
<td>Vermiculite</td>
<td>1318-00-9</td>
<td>5-10</td>
</tr>
<tr>
<td>Water-absorbent resin</td>
<td>9003-04-7</td>
<td>1-5</td>
</tr>
<tr>
<td>Sodium chloride</td>
<td>7647-14-5</td>
<td>1-5</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>30-40</td>
</tr>
</tbody>
</table>

*This product consists of the non-woven fabric and the heating element.
Contents of the heating element are described in this table.
Exact concentrations have been withheld as a trade secret.

Section 4: First-aid measures

Necessary first-aid measures by relevant routes of exposure;

IF INHALED
Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If symptoms continue, call a doctor/physician.

IF ON SKIN
Rinse with plenty of water and soap.
If symptoms continue, call a doctor/physician.

IF IN EYES
Immediately rinse cautiously with water for 15 - 20 minutes.
Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms continue, call a doctor/physician.

IF SWALLOWED
Rinse mouth. Immediately get medical advice/attention.

Most important symptoms/effects, acute and delayed;
No Applicable Information Available

Indication of immediate medical attention and special treatment needed, if necessary;
No Applicable Information Available
Section 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media;

Suitable extinguishing media:
Use dry sand, dry chemical powder, fire foam or carbon dioxide.

Unsuitable extinguishing media
Do not use water to extinguish fire.

Specific hazards arising from the chemical;
General caution: powdered materials may ignite, under certain conditions.

Special protective equipment and precautions for fire-fighters;
Cut off any ignition sources and extinguish with an appropriate agent.
Take action upwind from the source.

Section 6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures;
Avoid release into the environment because product may cause local effects.

Methods and materials for containment and cleaning up;
Sweep up materials or vacuum using a vacuum cleaner so as not to cause dust, then place material in a container of water.
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
Prevent flow of material into drains, sewers, basements or closed areas.

Section 7: Handling and storage

Precautions for safe handling

Protective measures:
Do not use for other than Recommended use.
Avoid the generation of dust.

Advice on general occupational hygiene:
Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Technical measures:
Take precautionary measures against static discharge.

Incompatible materials:
Oxidizing agents

Conditions for safe storage:
Avoid storing in direct sunlight, high temperature and high humidity. Store at room temperature.
Packing material:
Use a sealed container without damage or leakage.

Section 8: Exposure controls/personal protection

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th></th>
<th>OSHA PEL-TWA</th>
<th>ACGIH TLV (2014)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5 mg/m³ (Respirable fraction)</td>
<td>3 mg/m³ (Insoluble respirable particles not other specified)</td>
</tr>
<tr>
<td></td>
<td>15 mg/m³ (Total dust)</td>
<td>10 mg/m³ (Insoluble inhalable particles not other specified)</td>
</tr>
</tbody>
</table>

Appropriate engineering controls;
In a work place where dusts generate, ensure to use sealed instrument or local ventilation.

Individual protection measures, such as personal protective equipment;

- **Respiratory protection**
  In case of dust generation, wear appropriate protective mask or air aspirator as required.
- **Hand protection**
  If hand contact is possible, wear protective gloves.
- **Eye protection**
  Wear safety glasses or goggles if in eyes.
- **Skin and body protection**
  Wear protective clothing and apron if necessary.

Section 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White sheet (contents: black)</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No Applicable Information Available</td>
</tr>
<tr>
<td>pH</td>
<td>unmeasurable</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No Applicable Information Available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No Applicable Information Available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No Applicable Information Available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No Applicable Information Available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No Applicable Information Available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No Applicable Information Available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No Applicable Information Available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No Applicable Information Available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No Applicable Information Available</td>
</tr>
<tr>
<td>Solubility (ies)</td>
<td>No Applicable Information Available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No Applicable Information Available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No Applicable Information Available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No Applicable Information Available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No Applicable Information Available</td>
</tr>
</tbody>
</table>

Other information
No Applicable Information Available
Section 10: Stability and reactivity

Reactivity
Stable under normal handling condition.

Chemical stability
Stable under normal handling condition.

Possibility of hazardous reactions
No hazardous reaction expected under normal handling.

Conditions to avoid
Avoid storing in direct sunlight, high temperature and high humidity.

Incompatible materials
Oxidizing agents

Hazardous decomposition products
In case of fire, toxic decomposition products may be generated.

Section 11: Toxicological information

Information on the likely routes of exposure (inhalation, ingestion, skin, and eye contact);
No Applicable Information Available

Symptoms related to the physical, chemical and toxicological characteristics;
Information on product:
Acute toxicity (oral): Rat LD_{50} > 2,000 mg/kg

Information on ingredients:
No Applicable Information Available

Delayed and immediate effects and also chronic effects from short- and long-term exposure;
No Applicable Information Available

Numerical measures of toxicity (such as acute toxicity estimates);
No Applicable Information Available

Whether the chemical is listed in the NTP Report on Carcinogens or has been found to be a potential carcinogen in the IARC Monographs, or by OSHA;
IARC: Not listed
NTP Report: Not listed
OSHA: Not listed
Section 12: Ecological information

Ecotoxicity:
Information on product: No Applicable Information Available
Information on ingredients: No Applicable Information Available

Persistence and degradability:
Information on product: No Applicable Information Available
Information on ingredients: No Applicable Information Available

Bioaccumulative potential:
Information on product: No Applicable Information Available
Information on ingredients: No Applicable Information Available

Mobility in soil:
Information on product: No Applicable Information Available
Information on ingredients: No Applicable Information Available

Other adverse effects:
No information

Section 13: Disposal considerations

Waste treatment methods
Dispose of waste in accordance with applicable local, regional and international regulations and standards.
When disposing, consult a certificated waste trader or local offices if they deal with the waste.
Used container should be recycled after cleaning or dispose of in compliance with related laws and local regulations.
Contents should be removed completely prior to disposal of empty containers.

Section 14: Transport information

UN number
No Applicable Information Available

UN proper shipping name
No Applicable Information Available

Transport hazard class(es)
No Applicable Information Available

Packing group
No Applicable Information Available

Environmental hazards
No Applicable Information Available

Transport in bulk according to Annex II of MARPOL 73/78 and IBC code
No Applicable Information Available

Special precautions for user
When transporting, avoid direct sunlight. Confirm no leakage to containers. When loading, prevent containers from falling, dropping or damaging. Take preventive measures of collapse.
Section 15: Regulatory information

OSHA: Not hazardous chemical

TSCA inventory: All ingredients except vermiculite in this product are listed on the TSCA Inventory.

TSCA SNUR: Not listed

SARA Title III: Section 302 (Extremely Hazardous Substances): Not listed
Section 304 (Hazardous Substances): Not listed
Section 313 (TRI Chemicals): Not listed

Clean Air Act: This product does not contain any substances regulated as hazardous air pollutants under Section 112 of the Clean Air Act.

Clean Water Act: This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act.

Section 16: Other information, including date of preparation or last revision

Update history:
Date of issue: April 10, 2015

References:
Information of KOBAYASHI Pharmaceutical Co., Ltd.
ACGIH, American Conference of Governmental Industrial Hygienists (2014) TLVs and BEIs.

[Disclaimer]
This SDS has been prepared based on the best available information however, it may not be sufficient in some cases. It is user’s responsibility to modify or update any contents in this SDS regarding information on hazardous properties and/or instruction for safe handling of the product when they become available. Precautionary measures in this SDS are only applicable for normal handling conditions and it is necessary to take appropriate additional measures to ensure safe handling which depend on your specific use conditions or situations.