



Safety Data Sheet

Section 1. Product and Company Information

Product Name: Air-activated Exothermic Heating sachets of various styles: Heat Factory, Duck Dynasty, Stay Warm, HandiHeat; Hand Warmers, Footwarmers, Footwarmer Insoles, Adhesive Toe Warmer, Large Size Warmers, Body Warmers, Shipping Warmers.

Other Means of Identification: Soft flexible sachet style heating pad wrapped in plastic outer film, Air-activated disposable warmers.

Company Name: Heat Factory USA, Inc
Department Contact: Production & Quality Control
Address: 1958 Kellogg Ave, Carlsbad, CA. 92008, USA
Telephone Number: 760-893-8300
E-mail address: SDS@heatfactoryusa.com

Section 2. Hazard Identification

Hazard Properties: Not Classified

Appearance & Odor: Solid, Odorless

Health Hazards: Burns may occur when not used properly

Physical Hazards: Low when used under normal intended use.

Section 3. Composition, Ingredients Information

Substance: Mixture

Common Name: Air-Activated heat pad (sachet)

Harmful Substances: No known hazardous substances

Ingredient Composition: Nylon Non-woven fabric containing heating elements

Product Content: Heating Elements content listed in table below

Chemical name	CAS No.	Concentration Range(wt %)
Iron powder	7439-89-6	45-60
Activated	7440-44-0	8-12
Vermiculite	1318-00-9	5-10
Potassium	7440-09-7	1-5
Water	7732-18-5	25-35

*** Exact percentages have been withheld as a trade secret*



Section 4. First-aid Measures

General First Aid Overview:	Show this safety data sheet to doctor or attending medical administer. Always consult with physician if the abnormal conditions persist after taking the measures listed in this SDS.
Eye Contact:	Immediately rinse thoroughly and continuously with plenty of clean water for 15 minutes or more. Remove any contact lenses if present. Continue to rinse if needed. If symptoms continue, call physician or medical professional.
Skin Contact:	Rinse and wash skin with soap and water. If irritation continues, call physician.
If swallowed or Ingestion:	Rinse Mouth. Do not induce vomiting, immediately seek medical advice and care.
Inhalation:	Remove victim to fresh air. If comfortable breathing is not achieved, call physician.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media:	Use extinguishing methods that are appropriate to local circumstances and surrounding environment. Use dry chemical powder, fire foam or carbon dioxide.
Unsuitable Extinguishing Media:	Use of water spray when fighting fire may be inefficient.
Special Hazards Arising From Chemical:	No information available
Special Protective Equipment and Precautions for fire fighters:	Extinguish with appropriate agent and take action upwind from source and as in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved full protective gear.
Explosive Data:	Sensitivity to Mechanical Impact: NO Sensitivity to Static Discharge: NO

Section 6. Accidental Release Measures

Personal Precautions:	Avoid contact with eyes. Ventilate the air and use protective equipment such as rubber gloves.
Environmental Precautions:	Use caution to prevent the substance from being released into bodies of water such as river, lakes and oceans, as it may adversely affect the environment.



Methods of Containment	Prevent the further leakage or spillage if safe to do so.
Prevention of Secondary Accident:	Remove anything from vicinity that may contribute to a secondary fire or other hazard.
Methods of Clean up:	Pick up and transfer to properly labeled containers.

Section 7. Handling

Safe Handling:	Avoid contact with eyes. Do not use for any unintended purpose and handle in accordance with good industrial hygiene and safety practice.
Storage:	Store substance in a closed dry and well ventilated place and away from direct sunlight, high temperatures, or high humidity.
Incompatible Products:	No known.

Section 8. Exposure Control & Personal Protection

Exposure Guidelines:	This product as supplied does not contain any hazardous materials with occupational exposure limits established by regional or national regulatory bodies.
Engineering Measures:	Showers, Eyewash stations, Ventilation systems
Individual protection measures, such as protective equipment: When used as intended	
Eye Protection:	No special protective equipment required
Respiratory protection:	No protective equipment required under normal conditions. In case of dust generation, wear appropriate protective mask or air aspirator as required.
Hand Protection:	Wear safety glasses or goggles.
Skin and Body Protection:	Wear protective clothing if necessary.

Section 9. Physical and Chemical Properties

Physical State:	Solid
Appearance:	
Color:	Outer Pouch: White Inner Content: Black
Odor:	Odorless
Odor threshold:	No Information Available
pH:	No Applicable Information Available
Melting point/freezing point:	No Applicable Information Available
Boiling point and boiling range:	No Applicable Information Available
Flash point:	No Applicable Information Available
Evaporation rate:	No Applicable Information Available



Flammability (solid, gas):	No Applicable Information Available
Flammability or explosive limits:	No Applicable Information Available
Upper flammability:	No Applicable Information Available
Lower flammability:	No Applicable Information Available
Vapor pressure:	No Applicable Information Available
Vapor density:	No Applicable Information Available
Relative density:	No Applicable Information Available
Specific Gravity:	No Applicable Information Available
Water Solubility:	No Applicable Information Available
Partition coefficient: n-octanol/water:	No Applicable Information Available
Auto-ignition Temperature:	No Applicable Information Available
Decomposition Temperature:	No Applicable Information Available
Viscosity:	No Applicable Information Available
Explosive Properties:	No Applicable Information Available

Section 10. Stability and Reactivity

Reactivity:	Stable under normal recommended handling condition.
Chemical Stability:	Stable under normal recommended handling condition.
Possibility of Hazardous Reactions:	None under normal processing
Conditions to Avoid:	Avoid storing in direct sunlight, high temperature and high humidity environments.
Hazardous Polymerization:	Hazardous polymerization does not occur.
Incompatible Materials:	No known
Hazardous Decomposition Products:	Carbon oxides

Section 11. Toxicological Information

Information on likely routes of Exposure	
Inhalation:	No applicable information available
Eye Contact:	No applicable information available
Skin Contact:	No applicable information available
Ingestion:	Harmful if swallowed
Product-Acute Toxicity (oral)	Rat LD50 > 2,000 mg/kg
Information on Ingredients	No applicable information available



Section 12. Ecological Information

Ecotoxicity:	No applicable information available
Persistence & Degradability:	No applicable information available
Bioaccumulative Potential:	No applicable information available
Mobility in Soil:	No applicable information available
Other Adverse Effects:	No applicable information available

Section 13. Disposal Considerations

Waste Treatment Methods:	Dispose of content in accordance with local, regional and international standards and regulations.
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Section 14. Transportation Information

DOT:	Not Regulated
TDG:	Not Regulated
MEX:	Not Regulated
ICAO:	Not Regulated
IATA:	Not Regulated
IMDG/IMO:	Not Regulated
RID:	Not Regulated
ADR:	Not Regulated
AND:	Not Regulated

Section 15. Regulatory Information

OSHA:	Not hazardous chemical
TSCA:	Complies. All ingredients in product except vermiculite are listed in TSCA inventory
DSL:	All components are listed on either the DSL or NDSL
SARA Title III:	Section 313 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
CWA –Clean Water ACT:	This products does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40CFR 122.42)
California Proposition 65:	This product does not contain any substance regulated by states right-to-know regulation.



Section 16. Other Information

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. This SDS cannot cover all possible situations which the distributor, retailer, or end user may experience during transportation, storage, packaging, processing, or use. The user should examine this SDS, product and its use to determine if additional precautions should be taken. 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.