



healthmark
INDUSTRIES CO.
health care products
800-521-6224
www.hmark.com

Product SDS

Reference date: 12/2014 Revision date:
06/25/2019

01. Identification of the substance/mixture and of the company

Product name: Heating Vest

Code number(s): HV-001, HV-002, HV-003, HV-004, HV-005, HV-006, HV-007

Purpose of product: To provide heating of the core body temperature

Manufacturer/supplier: Healthmark Industries Co.

Address: 18600 Malyn Blvd. / Fraser, MI 48026

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Emergency telephone number: (800) 424-9300 (24-hour service)

02. Hazards identifications

Classification of the substance or mixture:

Pigment: Black powder.

Adverse environmental and human health effects:

03. Composition/information on ingredients

<u>Description of the mixture:</u>	<u>CAS #:</u>	<u>% by Weight</u>	<u>Symbol</u>	<u>Risk Phrases</u>
Non-Woven Fabric- Polyethylene	9002-88-4	100%	Xi	R36/37/38
Iron Powder- Iron	7439-89-6	50-70%	Xi	R36/37/38
Water-Water	7732-18-5	15-25%	-	R36/37/38
Activated Carbon- Carbon	7440-44-0	10-15%	Xi	R36/37/38
Vermiculite- N/A	1318-00-9	1-5%	Xi	R36/37/38
Wood Powder- N/A	N/A	1-5%	Xi	R36/37/38
Salt- N/A	N/A	1-4%	Xi	R36/37/38

Hazardous ingredients: N/A

General information: USA: This product is not a hazardous material as defined by 29 CFR 1910.1200, OSHA Hazard Communication Evaluation. European Communities: This substance is classified I the Annex I of Directive 67/548/EEC. This substance is considered dangerous and has been classified according to Directive 1999/33/EC and its adaptations. Classification: Irritant

Following inhalation: High concentrations of vapors and mists of this product are severely irritating to the upper respiratory tract.

Following skin contact: Direct contact causes mild skin irritation. Prolonged or repeated skin exposure may cause drying and reddening of the skin.

Following eye contact: Direct contact causes severe eye irritation.

Following ingestion: Severely irritating to the gastrointestinal tract irritation with nausea, vomiting and diarrhea. Risk of aspiration into the lungs during swallowing and vomiting; aspiration of this substance may cause severe lung injury.

Notes for the doctor:

04. Firefighting measures

Suitable extinguishing media: Dry chemical, CO₂, alcohol foam. Use water spray to cool fire exposed containers

Unsuitable extinguishing media:

Special hazards arising from the substance and combustion products: During a fire, irritating and toxic gases, fumes and vapors may be generated. Products of combustion may include carbon monoxide, carbon dioxide and dense smoke.

Advice for firefighters: As for any fire, evacuate the area and fight the fire from a safe distance. Wear a pressure-demand, self-contained breathing apparatus and full protective gear. Using water on fires involving this substance may cause frothing with increasing fire intensity.

Prevent contaminated water from being released into soil or surface waters.

05. Accidental release measures

General information: Wear all proper personal protective equipment. Prevent skin and eye contact. Avoid inhaling vapors and mists of this product. Remove all sources of ignition and heat.

Environmental precautions: Prevent material from contaminating soil and from entering sewers or waterways.

Methods for Containment: Isolate the spill area. Stop the leak if it is safe to do so. Contain the liquid immediately using a suitable inert absorbent (sand, clay, vermiculite or commercial hydrocarbon absorbents).

Additional information: Scoop up contaminated absorbents and place into suitable, covered chemical disposal containers. Large spills may be cleaned up by pumping liquid into closed containers, using equipment appropriate for a combustible, hydrocarbon liquid. Report all spill of this material that could reach any surface water, contaminate soils or enter drainage and sewer systems.

06. Handling and storage

Precautions for safe handling: Do not get on skin or in eyes. Do not ingest or inhale. Wash thoroughly with detergent and water after handling, before eating, drinking, smoking, or using the toilet. Remove contaminated clothing and wash before reuse. Follow all MSDS and label precautions even if the container is emptied because they may retain product residues.

Fire Preventions: N/A

Technical measures and storage conditions: Store in a cool, dry area, out of direct sunlight. Keep containers closed when not in use.

07. Exposure controls/personal protection

Control parameters: Use process enclosures, local exhaust, ventilation, or other engineering controls to control sources of mist of vapor.

Personal protective equipment: N/A

Hand protection: Wear chemical protective gloves and body-covering clothing to prevent skin exposure.

Respiratory protection: Not required for normal use. Wear an approved organic vapor respirator as needed to control exposure. Wear a positive pressure supplied air respirator for uncontrolled releases or when the organic vapor respirator limitations may be exceeded.

A respiratory protection program that meets OSHA's 20 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 1419 or Canadian Standards Association (CSA) Standard Z94.4-93 must be followed whenever workplace conditions warrant a respirator's use.

Eye protection: Wear chemical goggles. Wear a face-shield when necessary to prevent contact with skin and eyes. Have a safety shower and eye-wash fountain readily available in the immediate work area.

Advice on general occupational hygiene: Remove contaminated clothing promptly. Keep contaminated clothing in closed containers. Launder contaminated clothing before re-wearing or discard. Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material. Maintain good housekeeping. Avoid skin and eye contact. Avoid inhaling mists and vapors.

Environmental exposure controls:

08. Physical and chemical properties

Appearance: Orange material enclosing dark powder

Physical state: Solid

Color: Black powder

Odor: Slight odor

Safety relevant basic data: N/A

Explosion hazard: N/A

Density: 0.773

pH: N/A

Initial boiling point/range: °C /°F N/A

Solubility: Insoluble

Flash point: °C /°F N/A

Ignition temperature: °C /°F N/A

Melting point: 202°C /396°F

Conditions to avoid: N/A

Incompatible materials: N/A

09. Stability and reactivity

Conditions to avoid: Avoid contact with incompatible materials, and excess heat and ignition.

Incompatible materials: Strong oxidizing agents, strong bases and strong acids

Hazardous decomposition products: Decomposition products may include carbon monoxide, carbon dioxide

10. Toxicological information

Information on toxicological effects: N/A

Irritation: Product is severely irritating to skin, eyes, and gastrointestinal tract. High concentrations of dust and particles are expected to be irritating to the upper respiratory system.

Draize Test, Skin (rabbit); 100mg/24hr. Reaction: Severe

Sensitization: N/A

Inhalation:

Practical experiences: N/A

Ingredient: N/A

11. Ecological information

Terrestrial toxicity: No data available

Aquatic toxicity: N/A

Mobility: N/A

Persistence and degradability: Expected to biodegrade in natural soil, fresh water, sea water and sediments

Bio accumulative potential: N/A

Results of PBT and vPvB assessment: N/A

Other adverse effects: N/A

12. Disposal consideration

Product: Please refer to applicable local, state and federal regulations. Do NOT dump into any sewers, on the ground or into any body of water.

Contaminated packaging: Canada: Dispose of in accordance with local, provincial, and federal laws and regulations. Waste must be disposed of in accordance with relevant EC Directives and national, regional, and local environmental control regulations. For disposal within the EC, the appropriated code according to the European Waste Catalogue (EWC) should be used.

Uncontaminated packaging: N/A

13. Transport information

UN-No: N/A

Proper shipping name: N/A

Classification code: N/A

Packing group: N/A

Hazard label: N/A

14. Regulatory information

Material safety evaluation:

	<u>NFPA Hazard Rating</u>	<u>HMIS Hazard Rating</u>
Acute Health	1	1
Flammability	1	1
Instability	0	
Physical Hazard		0

Regulation on combustible liquids: N/A

Class according 2009/104/EG (BetrSichV): N/A

Water hazard class: N/A

Storage according TRGS 510 (Storage of hazardous substances in non-stationary containers): N/A

15. Other information

Recommended application: N/A

Relevant R-, H-, and EUH-phrases: N/A

The information supplied in this Safety Data Sheet is designed only as a guidance for the safe use, storage, and handling of the product. This information is correct to the best of our knowledge and beliefs at the date of the publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other processes.