

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

TRADE NAME (as labeled) Heat Factory - Hand and Body Warmers

MANUFACTURER'S NAME Japan

Address (complete mailing address): 2390 Oak Ridge Way, Vista, CA 92081

Phone number for additional information: 760-734-5300

Date prepared or revised 1-31-03 Name of preparer* Chris Treptow, President

II. HAZARDOUS INGREDIENTS

Chemical Names	CAS Numbers	Percent*	Exposure Limits in Air (give units)		
			ACGIH TLV	OSHA PEL	Other (specify)
Commodity:	Hand Warmer (Disposable)				
Ingredients:	(Non-toxic)		Packaging/ Wrapping of Hand Warmer		
	Iron Powder		Nylon spunbonded (Inner bag)		
	Activated Carbon		Polyethylene laminated sheet		
	Vermiculite		(Outer bag)		
	Sodium Chloride (Table salt)				
	Water				

III. PHYSICAL PROPERTIES

Vapor density (air=1) Not
Specific gravity Applicable
Solubility in water Not applicable
Vapor pressure, mmHg at 20 °C Not Applicable
Melting point or range, °F Not applicable
Boiling point or range, °F Not applicable
Evaporation rate (butyl acetate = 1) Not applicable
Appearance and odor Above mentioned ingredients and wrapping materials form a finished disposable handwarmer. No odor given off this product.
HOW TO DETECT THIS SUBSTANCE* (warning properties of substance as a gas, vapor, dust, or mist)
Not applicable

*Not a required category.

NOTE: All required categories should be addressed. If any item is not applicable, or no information is available, the space must be marked to indicate that.

This voluntary form is provided by Cal/OSHA to assist MSDS preparers and users. Any format may be used as long it contains all the required information.

IV. FIRE AND EXPLOSION

Flash Point, °F (give method) Not applicable

Auto ignition temperature, °F Not applicable

Flammable limits in air, volume %: Not applicable lower (LEL) _____ upper (UEL) _____

Fire extinguishing materials:

water spray _____ carbon dioxide _____ other:
 foam _____ dry chemical

Special firefighting procedures: No particular procedures needed.

Unusual fire and explosion hazards: Materials for inner bag and outer bag are combustible if forced to ignite. However, handwarmer (finished goods) not hazardous.

V. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE for each potential route of exposure.

Inhaled: None

Contact with skin or eyes: Wash with water

Absorbed through skin: None

Swallowed: Call physician

HEALTH EFFECTS OR RISKS FROM EXPOSURE. Explain in lay terms. Attach extra page if more space is needed.

Acute: Symptom of minor burn will occur when handwarmer is used on the same place for longer hours (however materials itself is not hazardous)

Chronic: Sign of burn. Reddish spot and blister on skin.

FIRST AID: EMERGENCY PROCEDURES

Eye Contact: Wash with water if ingredients scatter.

Skin Contact:

Inhaled:

Swallowed:

SUSPECTED CANCER AGENT? None of the components of the disposable handwarmer is considered as a carcinogen.

NO: This product's ingredients are not found in the lists below.

YES: Federal OSHA NTP IARC

California employers using Cal/OSHA - regulated carcinogens must register with Cal/OSHA. The Cal/OSHA and Federal OSHA carcinogen lists are similar.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

VI. REACTIVITY DATA

Stability: Stable Unstable

Conditions to avoid:

Incompatibility (materials to avoid): None

Hazardous decomposition products (including combustion products): None

Hazardous polymerization: May occur Will not occur
Conditions to avoid:

No need of special precautions to be taken. Store in a cool place, avoid direct exposure to sunshine.

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill response procedures (include employee protection measures):

Since the materials used are not toxic, no special steps are needed.

Preparing wastes for disposal (container types, neutralization, etc.):

Simply sweep it up.

NOTE: Dispose of all wastes in accordance with federal, state and local regulations.

Dispose as regular garbage.

VIII. SPECIAL HANDLING INFORMATION

Ventilation and engineering controls Use only with adequate ventilation. No need of special care

Respiratory protection (type) No need of special care.

Eye protection (type) No need of special care.

Gloves (specify material) No need of special care.

Other clothing and equipment None.

Work practices, hygienic practices Non toxic, odorless, flameless.

Other handling and storage requirements Store in cool, dry place.

Protective measures during maintenance of contaminated equipment No special care needed.