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NO.2610100028

MATERIAL SAFETY DATA SHEET

Product Name: Heat Pack

Revision Date: 2010-11-17

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Approver: Shang zhaocong



Shanghai Research Institute of Chemical Industry Testing Centre
Shanghai Classification and Testing Centre of Dangerous
Chemicals for State Administration of Work Safety

MATERIAL SAFETY DATA SHEET

Heat Pack

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name: Heat Pack
 Company:
 Address:
 Email:
 Fax:
 Emergency Phone:
 MSDS Number: 2610100028
 MSDS Date: 2010-11-17

SECTION2 INFORMATION ON INGREDIENTS

Product name: Heat Pack

Ingredient	Concentration	CAS No.	EC No.
Iron powder	60%	7439-89-6	231-096-4
Charcoal, activated	16.6%	64365-11-3	264-846-4
Water	20%	7732-18-5	231-791-2
Sodium chloride	3.4%	7647-14-5	231-598-3

SECTION3 HAZARDS IDENTIFICATION

Hazards Identification:

This substance is considered to be non-hazardous for transport.

Emergency Overview:

The internal material may cause irritating to eyes, respiratory system and skin.



SECTION 4 FIRST-AID MEASURES

Skin Exposure:

In case of contact the internal material, immediately wash skin with soap and copious amounts of water. If irritation persists, call a physician.

Eye Exposure:

In case of contact the internal material with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, call a physician.

Inhalation Exposure:

If inhaled the internal material, remove to fresh air. If necessary, get medical attention.

Oral Exposure:

If swallowed the internal material, immediately wash out mouth with water. Call a physician.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable: Water spray, Dry chemical, Carbon dioxide or appropriate foam.

Firefighting:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Procedure of Personal Precaution:

Exercise appropriate precautions to minimize direct contact with eyes.

Methods for Cleaning up:

Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

SECTION 7 HANDLING AND STORAGE

Handling:

Wear appropriate protective clothing and gloves. Avoid breathe dust. Avoid contact with eyes. Mechanical exhaust required. Keep away from ignition sources, heat and flame. Incompatibilities: Strong oxidizing agents, acids and food. No smoking at working site.

Storage:

Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame. Store in a tightly closed container. Incompatibilities: Strong oxidizing agents, acids and food.

SECTION 8 EXPLOSURE CONTROL/PPE

Engineering Controls:

Use ventilation equipment if available. Safety shower and eye bath.

Personal Protective Equipment:

Respiratory: Wear dust mask if needed.

Eye: Wear chemical safety goggles.

Clothing: Wear appropriate protective clothing.

Hand: Wear compatible protective gloves.

Other Protect:

No smoking, drinking and eating at working site. Wash thoroughly after handling.

SECTION9 PHYSICAL/CHEMICAL PROPERTIES

Appearance: Containing black little granular powder
 Odor: Weak odor
 pH Value: 10.7 (25°C, 50.0g/L)
 Solubility: Slightly soluble in water
 Melting Point/°C: >350°C

SECTION10 STABILITY AND REACTIVITY

Stability:
 Stable under normal temperatures and pressures.
 Conditions to Avoid:
 Strong oxidizing agents, acids.
 Materials to Avoid:
 Will not occur.
 Hazardous Polymerization:
 Metal oxides, Carbon monoxide, Carbon dioxide.

SECTION11 TOXICOLOGICAL INFORMATION

Toxicity Data:
 Iron: Rat Oral LD50 - 30000 mg/kg.
 Sodium chloride: Rat Oral LD50 - 3000 mg/kg;
 Mouse Oral LD50 - 4000 mg/kg;
 Rat Inhalation LC50 - >42000 mg/m³/1H;
 Rabbit Skin LD50 - >10000 mg/kg.

Irritation Data:
 May cause irritating to eyes, respiratory system and skin.

SECTION12 ECOLOGICAL INFORMATION

No data available.

SECTION13 DISPOSAL CONSIDERATION

Appropriate Method of Disposal of Substance:
 Spent of discarded material is not belong to hazardous waste. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with and afterburner and scrubber. Observe all federal, state, and local environmental regulations.

SECTION14 TRANSPORT INFORMATION

DOT: Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.
 RID/ADR: Non-Hazardous for Air Transport: Non-hazardous for air transport.
 IATA: Non-Hazardous for Air Transport: Non-hazardous for air transport.
 IMO: Non-Hazardous for Air Transport: Non-hazardous for air transport.

SECTION15 REGULATORY INFORMATION

EU Additional Classification:

S 25

Safety Statements: Avoid contact with eyes.

SECTION16 OTHER INFORMATION

Date: 2010-11-17

Department: Shanghai Research Institute of Chemical Industry Testing Centre
Shanghai Classification and Testing Centre of Dangerous Chemicals for State Administration
of Work Safety
Tel (Fax): 8621-52815377/52800971/52807275/52811034/52569800

Revision: 0

Other

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