

MATERIAL SAFETY DATA SHEET

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name: Heatworks
Company: AMMEX Corporation
Address: PO Box 88047, Tukwila, WA 98138
Fax: (425) 251-8656
Emergency Phone: Dial 911, or contact your local Poison Control Center
MSDS Number: 05105
MSDS Date: 15th, Sep 2005

SECTION2 INFORMATION ON INGREDIENTS

Product name:	Heat Pack	
Ingredient	Concentration	CAS No.
Iron powder	~55%	7439-89-6
Vermiculite	~7%	/
Activated charcoal	~6%	/

SECTION 3 HAZARDS IDENTIFICATION

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

Emergency Overview:

Caution: Avoid contact the internal material with eyes, respiratory system and skin.

SECTION4 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.

SECTIONS 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.

SECTION6 ACCIDENTAL RELEASE MEASURES

Procedures of Personal Precautions:

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.

SECTION7 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.

SECTION8 EXPOSURE 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:	Outer: plastic bag, Inner: fabric bag (containing black fine granule and powder)
Odor:	Odorless
Melt point:	>300℃
Solubility:	Hardly soluble in water, insoluble in acetone and ethanol

SECTION10 STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.

Materials to Avoid: Strong oxidizing agents, acids.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Metal oxides, Carbon monoxide, Carbon dioxide.



SECTION11 TOXICOLOGICAL INFORMATION

Toxicity Data: No data available.

Irritation Data: The internal materials may cause irritation to eyes, respiratory system and skin.

SECTION12 ECOLOGICAL INFORMATION

No data available.

SECTION13 DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of substance:

Spent or 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.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

IMO

Non-Hazardous for Sea Transport: Non-hazardous for sea transport.

UN Number: None

SECTION15 REGULATORY INFORMATION

EU Additional Classification:

S 25

Safety Statements: Avoid contact with eyes.

SECTION16 OTHER INFORMATION

Date: 15th, Sep 2005

Department: Shanghai Research Institute of Chemical Industry Testing Centre

Tel(Fax): 8621-52800971/52807275/52811034

Revision: 0

Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from using the above information.

