

098-001

## SAFETY DATA SHEET

**Product Name** : Hand & Toe Warmers

**Manufacturer** : PROCORE DIRECT LIMITED

**Address** : 601, Bldg. 3, Jinhuan Business Park 1977  
Jinshajiang Lu Shanghai 200333, China

## SAFETY DATA SHEET

### Section 1 – Chemical Product and Company Identification

**Product name:** Hand & Toe Warmers  
**Manufacturer:** PROCORE DIRECT LIMITED  
**Address:** 801, Bldg. 3, Jinhuan Business Park 1977 Jinshajiang Lu Shanghai, China  
**Post Code:** 200333  
**Tel:** +86 (21) 5237 6280  
**Fax:** +86 (21) 5237 6285  
**Email:** [contact@procoredirect.com](mailto:contact@procoredirect.com)  
**Website:** [www.procoredirect.com](http://www.procoredirect.com)

### Section 2 – Hazards Identification

#### Emergency Overview:

This product with no health hazards reported from normal use. The most important hazard is that prolonged contact with the skin at the same site may cause a cryogenic burn.

**Route of entry:** Inhalation, skin contact, eye contact, ingestion.

**Eye:** Dust may cause irritation or corneal injury due to mechanical action.  
Fumes released during hot operation may cause eye irritation.  
Exposure to gas of outer bags causes eyes to be inflamed with tear production and itch.

**Skin:** May cause skin irritation individual.

**Inhalation:** Fumes generated under heat may cause irritation to upper respiratory tract and lungs. At 165°C or higher, outer bag produces gas which may irritate eyes, nose, and throat.

**Note:** Read the entire SDS for a more thorough evaluation of the hazards.

### Section 3 – Composition/Information on Ingredient

Single or mixture component: Mixture component (Component that is packaged in an inner bag, which is additionally packaged in an outer bag)

Substance	CAS No.	proportion	Symbol & Risk Phrases
<b>Mixture component:</b>			
Iron powder	7439-89-6	60%	Xi,36/38
Water	7732-18-5	20%	-
Vermiculite	1318-00-9	6%	-
Activated carbon	7440-44-0	12%	F,Xn,Xi,36/37-36/37/38-20-10
Sodium chloride	7647-14-5	2%	Xi,36-36/37/38-22
<b>Inner bag:</b>			
Ethylene polymer	26221-73-8	-	-
Propylene polymer	9003-07-0	-	-
<b>Outer bag:</b>			
Poly vinylidene chloride copolymer	32335-23-2	-	-
Polypropylene film	9003-07-0	-	-
Polyethylene film	9002-88-4	-	-

### Section 4 – First Aid Measures

#### Mixture components in a bag:

**Eye contact:** Never rub eyes. Flush eyes with plenty of clean water. Seek medical attention if you feel unwell.

**Skin contact:** Wash skin with plenty of soap and water or warm water.

**Ingestion:** Rinse the mouth and spit it out. Seek medical attention if you feel unwell.

#### Inner/outer bags:

**Eye contact:** There is a risk of eyeball to be scratched. Flush eyes with plenty of clean water. Get medical attention if you feel unwell.

**Skin contact:** If irritated, wash skin with plenty of soap and water or warm water. If molten material gets on skin, flush a plenty of water and cool the affected area down. Never peel it off. Get medical attention.

**Inhalation:** No evaporation occurs under normal conditions. When experienced over exposure to gas which is produced from hot molten resin, remove to fresh air. At 165°C or higher, outer bag produces gas which may irritate eyes, nose, and throat.

**Ingestion:** Spit it out immediately. If ingested, seek medical attention.

## Section 5 – Fire Fighting Measures

### Extinguishing Media:

Use dry chemical, water fog, foam and carbon dioxide.

### Fire Fighting Procedures:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode. Fight fire from the maximum distance. Evacuate area. Extinguish a fire from windward. Prevent inhalation of gas produced.

### Specific Hazards:

When involved in a fire, this material may decompose and produce irritating fumes and gas.

## Section 6 – Accidental Release Measures

### Personal Precautions:

Wear appropriate personal protective equipment as specified in Section VIII. Avoid direct contact with skin.

### Environmental Precautions:

This material may be non-hazardous in ordinary use and may be discarded in accordance with applicable governmental regulations and take order with the demands of the environmental protection section.

### Methods of Clean up:

Sweep and scoop all spilled material. Place them into a water-filled container. Dispose in accordance with applicable state and federal regulations.

## Section 7 – Handling and Storage

### Handling Precautions:

Do not use this product any place near flame and under high temperature. Never put the mixture powder out of inner bag.

### Storage Precautions:

Keep product in a cool place away from exposure to sunlight. Do not store product any place where becomes high temperature. Do not damage to outer bag.

## Section 8 – Exposure Controls, Personal Protection

**Engineering Control:** Use exhaust ventilation to keep airborne concentration below exposure limit.

**Personal protection equipment:**

**Respiratory Protection:** If TLV of product or any component is exceeded, a NIOSH approved air supply respirator is advised in absence of proper environmental control.

**Eyes Protection:** Not required under normal use.

**Hands Protection:** Not required under normal use.

**Skin and Body Protection:** Not required under normal use.

**Recommended decontamination facilities:** Eye bath, safety shower, washing facilities.

## Section 9 – Physical and Chemical Properties

**Mixture component:**

**Physical state:**

**Form:** Solid powder

**Color:** Black

**Odor:** Odorless

**Flash point:** No ignition at 140°C

**Auto-ignition:** Not applicable to Auto-ignition substance stated in UN recommendations

**Self-heating:** Not applicable to Auto-ignition substance stated in UN recommendations

**Water solubility:** Insoluble, except for sodium chloride.

**Inner bag:**

**Appearance:** White or colored sheet

**Melting point:** Polyethylene: 115°C or higher, Polypropylene: 125°C or higher

**Specific gravity:** Polyethylene: 0.91 to 0.94 Polypropylene: 0.89

**Water solubility:** Insoluble.

**Outer bag:**

**Appearance:** Transparent or colored sheet

**Melting point:** 160 to 165°C

**Specific gravity:** 1.00 to 1.20

**Water solubility:** Insoluble

## Section 10 – Stability and Reactivity

### Mixture components:

Stability: Stable under ambient conditions.

Reactivity: Capable of spontaneous heating, materials reacting with oxygen.

Conditions to avoid: Forbid the use in the circumstance with high oxygen concentration.

Hazardous decomposition products: None.

### Inner bag:

Flash point: Polyethylene: 450°C or higher Polypropylene: 400°C or higher

Water reactivity: None

Oxidization: None

Self-reactivity/Explosive: None

Stability/Reactivity: Stable and non-reactive under ambient storage and handling conditions.

### Outer bag:

Inflammation point: 340 to 400°C

Flash point: 400 to 500°C

Water reactivity: None

Oxidization: None

Self-reactivity/Explosive: None

Stability/Reactivity: Stable and non-reactive under ambient storage and handling conditions.

## Section 11 – Toxicological Information

### Mixture component:

Acute toxicity: None known about oral/dermal toxicity

### Inner bag:

Skin corrosion: None.

Irritation: Physical irritation to eyes and skin.

Sensitization: None.

Acute toxicity: None known about oral toxicity.

Carcinogenicity: Polyethylene/Polypropylene cannot be classified as carcinogen to human by IARC category.

### Outer bag:

Irritation: Vapor and gas produced during heat melting cause irritation to eyes and respiratory.

Sensitization: None

## Section 12 – Ecological Information

### Environmental Toxicity:

On the basis of available information, this product is not expected to produce any significant adverse environmental effects when recommended use instructions are followed.

### Mixture components:

Mobility: None known

Persistence/degradability: None known

Bioaccumulative potential: None known

### Inner/Outer bags:

Degradability: Non-degradable for long time

## Section 13 – Disposal Considerations

### Waste Disposal Methods:

Used or unused product should be disposed of in accordance with Federal, State or Local Laws and Regulations.

### Empty Container Warnings:

Empty containers may contain product residue, follow SDS and label warnings even after they have been emptied.

## Section 14 – Transport Information

### US Department of Transportation Classification:

The product is not a DOT controlled material (United States).

### International Air Transportation Association Classification:

This product is not classified as a hazardous material for transport under IATA regulations.

### International Maritime Organization – IMDG:

This product is not classified as a hazardous material for transport under IMDG regulations.

### UN, IMO, ADR/RID, ICAO Code:

This product is not classified as a hazardous material for conveyance under these codes.

**Specific precautionary transport measures:** Avoid wetting and violent handling. Ensure to avoid falling, drop, and damage and prevent load collapse during transport.

## Section 15 – Regulatory Information

EC label: N/A

Contains: N/A

Other regulation: N/A

For details regulations you should contact the appropriate agency in your country.

## Section 16 – Additional Information

MSDS Creation Date: 11<sup>th</sup> Nov. 2017

This MSDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. Products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

END OF REPORT