



## SAFETY DATA SHEET

*This Safety Data Sheet complies with the Canadian Controlled Product Regulations, the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910 (OSHA HCS), and the European Union Directives.*

### 1. Product and Supplier Identification

- 1.1 **Product:** Coghlan's Hand Warmer #8797  
Coghlan's Foot Warmer #0047
- 1.2 **Other Means of Identification:** Disposable warmer
- 1.3 **Product Use:** For use warming hands and feet
- 1.4 **Restrictions on Use:** None known
- 1.5 **Producer:** Coghlan's Ltd.,  
121 Irene Street,  
Winnipeg, Manitoba  
Canada, R3T 4C7  
  
Telephone: +1(204) 284-9550  
Facsimile: +1(204) 475-4127  
  
**Supplier:** As above
- 1.6 **Emergencies:** +1(877) 264-4526

### 2. Hazards Identification

- 2.1 **Classification of product or mixture**  
Note to reader: This product in an untested mixture and GHS classification is based on the classification of the ingredients and their concentrations. Proprietary ingredients, if any, do NOT exhibit any health effects not listed in this SDS.  
  
**GHS Classification:** None
- 2.2 **GHS Label Elements, including precautionary statements**  
  
**Pictogram:** None  
  
**Signal Word:** None

**GHS Hazard Statements:** None

**GHS Precautionary Statements:**

**Prevention:** None

**Response:** None

**Storage:** None

**Disposal:** None

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS:** None

**2.4 Additional Information**

**Primary Routes of Entry:**

***If package unbroken***

***If package broken, ingredients released***

Skin Contact:	Heat irritation	Yes
Skin Absorption:	No	No
Eye Contact:	No	Yes
Ingestion:	No	Yes
Inhalation:	No	Yes

**Emergency Overview:** When used as recommended, this product exhibits no health hazards. Because of heat generated when activated, local burns or heat irritation may occur if left on same site of skin for too long a period.

**Effects of Short-Term (Acute) Exposure:**

*Contents of packages, if released:*

**Inhalation:** Fumes generated under heat may cause irritation to the upper respiratory tract and lungs. At 165°C (329°F) or higher, outer bag produces gas which might irritate eyes, nose and throat.

**Skin Contact:** May cause skin irritation in some individuals.

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

**Ingestion:** Accidental ingestion is unlikely to cause gastro-intestinal irritation.

**Effects of Long-Term (Chronic) Exposure:** There are no known chronic health effects from use of this product.

**Medical Conditions Aggravated By Exposure:** In the case of broken packaging. Released ingredients may cause irritation of the skin in persons predisposed to skin problems.

### 3. Composition

#### 3.1 Mixture composition

Component	% (w/w)	GHS Classification
Iron Powder CAS No 7439-89-6 EINECS No 202-905-8	60	Flammable solid, Category 1, H228 Self-heating substances and mixtures, Category 1, H251
Water CAS No 7732-18-5 EINECS No 231-791-2	20	None
Activated Carbon CAS No 7440-44-0 EINECS No 231-153-3	12	Hazards not otherwise classified (HNOC) Combustible powder, Warning
Vermiculite CAS No 1318-00-9 EINECS No Not known	6	None
Sodium Chloride CAS No 7647-14-5 EINECS No 231-598-3	2	None

The above concentrations do not include the packaging which consists of Ethylene polymer (CAS No 26221-73-8), Propylene polymer (CAS No 9003-07-0), Polyvinylidene chloride copolymer (CAS No 32335-23-2), Polyethylene film (CAS No 9002-88-4)

### 4. First Aid Measures

#### 4.1 Description of First Aid Measures

**General advice:** Under recommended methods of use, contents are unlikely to be released. If released, follow the following first aid instructions.

**In case of eye contact:** Never rub eyes. Flush eyes with plenty of water and seek medical attention of you feel unwell.

**In case of skin contact:** Wash skin with soap and water. If irritation occurs and persists, seek medical attention. If hot mixture touches skin, flush with cold water immediately. Do not eat, drink or smoke until hands are thoroughly washed.

**If inhalation:** No evaporation occurs under normal conditions of use. If exposed to released gases on activation, remove to fresh air.

**If ingestion:** This product has very low oral toxicity, however, if ingested do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth and give 2 – 4 cups of water. Seek medical advice of you feel unwell.

#### 4.2 Most important symptoms and effects, both acute and delayed

*Contents of packages, if released:*

**Inhalation:** Fumes generated under heat may cause irritation to the upper respiratory tract and lungs. At 165°C (329°F) or higher, outer bag produces gas which might irritate eyes, nose and throat.

**Skin Contact:** May cause skin irritation in some individuals.

**Eye Contact:** 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 packaging causes eyes to be inflamed with tear production and itch.

**Ingestion:** Accidental ingestion is unlikely to cause gastro-intestinal irritation.

**Effects of Long-Term (Chronic) Exposure:** There are no known chronic health effects from use of this product.

**Medical Conditions Aggravated By Exposure:** In the case of broken packaging. Released ingredients may cause irritation of the skin in persons predisposed to skin problems.

- 4.3 Indication of any immediate medical attention and special treatment needed**  
No data available.

## 5. Fire Fighting Measures

**5.1 Extinguishing Media**

**Suitable extinguishing media:** Use dry chemical, water fog, foam or carbon dioxide.

- 5.2 Special hazards arising from mixture:** Combustion or thermal decomposition may produce toxic fumes and unidentified organic compounds in smoke.

**Advice for firefighters:** In any fire situation, firefighters should wear full protective clothing including self contained breathing apparatus. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**5.3 Further Information:**

**Sensitivity to Impact:** No  
**Sensitivity to Static Discharge:** No

**HAZARDOUS MATERIALS INFORMATION SYSTEM (HMIS) HAZARD INDEX:**

HEALTH: 0

FLAMMABILITY: 0

REACTIVITY: 0

CHRONIC HEALTH:

PERSONAL PROTECTION: None

## 6. Accidental Release Measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Under recommended conditions of use, personal protection isn't necessary. If content of packages leak, take precautions to prevent skin contact. If activated warmer feels too hot to the touch remove from contact with skin or insert a layer of clothing between the warmer and the skin.

**Respiratory Protection:** To avoid inhaling dust use N95 respirator or self-contained breathing apparatus. Use only approved respirators by NIOSH or OSHA.

**Skin protection:** Wear suitable protective equipment to prevent skin contact.

**Eye and Face Protection:** No recommendation.

**Footwear:** No specific recommendation.

**Other:** None

**6.2 Environmental precautions**

After use, dispose in garbage containment and do not leave in the environment. Packagings are not designed to decompose in the environment.

**6.3 Methods and materials for containment and cleanup**

Clean up spills immediately by wiping with a cloth. Dispose of cloth in compliance with municipal, provincial (state) and federal regulations.

**Remedial Measures:** Place contents into water filled container. Dispose of cloth in compliance with municipal, provincial (state) and federal regulations.

**Large Spills:** Not applicable

**Small Spills:** Place contents into water filled container. Dispose of cloth in compliance with municipal, provincial (state) and federal regulations.

**6.4 Reference to other sections**

For disposal, see Section 13.

## 7. Handling and Storage

**7.1 Precautions for safe handling**

**Handling Procedures:** Activate as instructed. Never tear bag to retrieve inner bag. Do not use this product near flames or sources of heat.

**7.2 Conditions for safe storage, including incompatibilities**

**Storage:** *Keep out of reach of children and animals.* Keep product in a cool place away from sunlight exposure. Do not store where there may be a concern of high temperatures. Do NOT tear or otherwise damage outer package.

**7.3 Specific end use(s)**

No other uses except those mentioned in Section 1.2

## 8. Exposure Controls, Personal Protection

**8.1 Control parameters**

**Components with workplace control parameters**

This product does not contain any ingredient with a known workplace exposure limit.

**8.2 Exposure Controls**

*Only if ingredients leak from package.*

**Engineering Controls:** Only use outdoors where engineering controls are not required. Avoid breathing dust.

**Respiratory Protection:** To avoid inhaling dust use N95 respirator or self-contained breathing apparatus. Use only approved respirators by NIOSH or OSHA.

**Skin protection:** Wear suitable protective equipment to prevent skin contact.

**Eye and Face Protection:** No recommendation.

**Footwear:** No specific recommendation.

**Other:** None

**Control of environmental exposure**

After use, dispose in garbage containment and do not leave in the environment. Packagings are not designed to decompose in the environment.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance:</b>	Solid black powder
<b>Odour:</b>	Odourless
<b>Odour Threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Melting Point/Freezing Point:</b>	Not available
<b>Initial Boiling Point:</b>	Not determined
<b>Flash Point:</b>	No ignition @ 140°C
<b>Evaporation Rate:</b>	Not available
<b>Flammability:</b>	Inner bag contents contain flammable solid
<b>Upper Explosion Limit:</b>	Not available
<b>Lower Explosion Limit:</b>	Not available
<b>Vapour Pressure:</b>	No data
<b>Vapour Density:</b>	Not available
<b>Relative Density:</b>	No data
<b>Solubility:</b>	Inner bag: insoluble, except for sodium chloride
<b>Partition Coefficient:</b>	Not available
<b>Autoignition Temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Viscosity:</b>	Not available
<b>Explosive Properties:</b>	Not available
<b>Oxidizing Properties:</b>	Not available
<b>Percent Volatiles:</b>	Not available

9.2 **Other safety information:** None

## 10. Stability and Reactivity

- 10.1 Reactivity**  
Capable of spontaneous heating, material react with oxygen.
- 10.2 Chemical Stability**  
Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions**  
No data available.
- 10.4 Conditions to avoid**  
Avoid activation in high oxygen environments.
- 10.5 Incompatible materials**  
Strong oxidizing agents
- 10.6 Hazardous decomposition products**  
None known

## 11. Toxicological Information

### 11.1 Information on toxicological effects

**Acute toxicity**

No GHS classification

**Skin corrosion/irritation**

No GHS classification

**Serious eye damage/eye irritation**

No GHS classification

**Respiratory or skin sensitization**

No GHS classification

**Germ Cell Mutagenicity**

No GHS classification

**Carcinogenicity**

No GHS classification. Not listed by IARC, ACGIH, NTP or OSHA.

**Reproductive toxicity**

No GHS classification

**Specific Target Organ Toxicity – Single exposure**

No GHS classification

**Specific Target Organ Toxicity – Repeated exposure**

No GHS classification

**Aspiration Hazard**

No GHS classification

**Aquatic Toxicity**

No GHS classification

**Additional information**

Component	LD <sub>50</sub>	LC <sub>50</sub>
Iron Powder CAS No 7439-89-6	7500 mg/kg (oral/rat)	Not available
Sodium Chloride CAS No 7647-14-5	3550 mg/kg (oral/rat) 10,000 mg/kg (dermal/rabbit)	42,000 mg/m <sup>3</sup> (Inhalation/rat, 1 hour)
Carbon Black CAS No 7440-44-0	440 mg/kg (intravenous/mouse)	Not available

## 12. Ecological Information

### 12.1 Toxicity

Sodium Chloride:	
To fish:	LC <sub>50</sub> (Lepomis macrochirus) 5,840 mg/l, 96 hour
To Daphnia and other aquatic invertebrates	NOEC – Daphnia magna: 1,500 mg/l, 7 day LC50 – Daphnia magna: 1,661 mg/l, 48 hour

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not conducted

### 12.6 Other adverse effects

No data available

## 13. Disposal Considerations

### 13.1 Waste treatment methods

#### Product:

Do not reuse empty packagings. Dispose of product according to all applicable local, state (provincial), and federal regulations. Offer to a licensed disposal company, properly contained and labelled.

#### Contaminated Packaging:

As above

## 14. Transport Information

**Transport of Dangerous Goods (TDG and CLR):** Not regulated

**United States Department of Transport (49CFR):** Not regulated

**International Air Transport Association (IATA):** Not regulated

**International Maritime Organization (IMO):** Not regulated



## 15. Regulatory Information

### CANADIAN FEDERAL REGULATIONS:

CEPA, DOMESTIC SUBSTANCES LIST: Listed

### AMERICAN FEDERAL REGULATIONS:

**CERCLA Hazardous Substance List (40 CFR 302.4)** Not regulated

**SARA 302 Extremely hazardous substance:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 311/312 Hazardous chemical:** Iron Powder: Fire hazard

**SARA 313 (TRI reporting):** SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **Other State Regulations:**

**Massachusetts Right to Know Components:** No components are subject to the Massachusetts Right to Know Act

**Pennsylvania Right to Know Components:** Activated Carbon, CAS 7440-44-0, No Revision Date  
Iron Powder, CAS No 7439-89-6, Rev date 1993-02-16  
Vermiculite, CAS No 1318-00-9, No Revision Date  
Sodium Chloride, CAS No 7647-14-5, No Revision Date

**New Jersey Right to Know Components:** Activated Carbon, CAS 7440-44-0, No Revision Date  
Iron Powder, CAS No 7439-89-6, Rev date 1993-02-16  
Vermiculite, CAS No 1318-00-9, No Revision Date  
Sodium Chloride, CAS No 7647-14-5, No Revision Date

**California Prop 65 Components:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

### OTHER:

None

## 16. Other Information

**Original Preparation Date:** May 29, 2018

**Prepared by:** Technical Department, Coghlan's Ltd.

**Disclaimer:** This Safety Data Sheet (SDS) was prepared using information provided by CCINFO, ingredient supplier SDS and other relevant sources. This product has been classified using weight of evidence, expert judgment and previous testing as per Part 1.3 of the Seventh Edition of The Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The information in this SDS is offered for your consideration and guidance when exposed to this product. Coghlan's Ltd expressly disclaims all expressed or implied warranties and assumes no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

***This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of Coghlan's Ltd.***

**Revisions:** None