



SAFETY DATA SHEET

This Safety Data Sheet complies with the Canadian Hazardous Products 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 Fire Sticks #7940
- 1.2 **Other Means of Identification:** None
- 1.3 **Product Use:** Fire Starting Fuel
- 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:** No Classification
- 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:

Skin Contact: No
Skin Absorption: No
Eye Contact: No
Ingestion: No
Inhalation: No

Emergency Overview: This product is ignited to provide a heat source from which other fires may be started. When ignited, contact with skin can cause severe burns. Vapours and fumes created by burning the fire sticks may be harmful if inhaled. May cause respiratory irritation if the smoke/vapours are inhaled. Do not inhale vapours or smoke from burning fire sticks. Prolonged exposure to these vapours through inhalation may cause eye and/or respiratory irritation, headache and/or nausea. Only use outdoors or indoors with proper ventilation.

Effects of Short-Term (Acute) Exposure:

Inhalation: Ensure that a burning fire sticks is not upwind of persons close. Prolonged inhalation of the smoke may cause eye and respiratory irritation and headache and/or nausea.

Skin Contact: Contact with the fire sticks may cause skin irritation or sensitization. Skin rash may occur in persons predisposed to skin problems and in some cases upon initial contact. Prolonged use may produce sensitization in some people. Although it is recommended to wash hands and skin thoroughly after handling, ingestion of residues by touching mouth is not expected to have serious health effects. Wash hands and exposed skin after handling the fire sticks.

Eye Contact: Smoke or vapours from the burning fire sticks may cause transient eye discomfort.

Ingestion: Accidental ingestion may cause stomach upset and in case of gross consumption headache, nausea and dizziness. Immediately contact a POISON CONTROL CENTER, doctor or nearest hospital for treatment advice.

Effects of Long-Term (Chronic) Exposure: Continued or prolonged use of this product may produce sensitization effects. Symptoms may be sudden with a rash occurring after use when no previous rash occurred through use. If this happens discontinue use or use skin protection to prevent reoccurrence.

Medical Conditions Aggravated By Exposure: Previous sensitization or a history of skin problems.

3. Composition

3.1 Mixture composition

Component	% (w/w)	GHS Classification
Wood Fibres CAS No 9004-34-6 EINECS No Not known	90 - 99	No GHS classification
Solvent Red #26 CAS No 4477-79-6 EINECS No 224-757-3	< 0.5	Skin Irritation, Category 2 Eye Irritation, Category 2A
Slack Wax CAS No 64742-61-6 EINECS No 265-165-5	2 - 12	No GHS Classification

4. First Aid Measures

4.1 Description of First Aid Measures

General advice: For skin contact with a hot product, immediately immerse in or flush affected area with large amounts of cold water to dissipate the heat. Cover the affected area with sheeting or gauze and get immediate medical attention. No attempt should be made to remove material from the skin or to remove contaminated clothing as the damaged flesh can easily be torn. For eye contact with hot product, immediately flush eyes with large amounts of cold water to dissipate the heat. Get immediate medical attention.

In case of eye contact: Immediately flush eyes with plenty of water for 15 minutes, occasionally lifting upper eyelids. Get medical attention immediately. Remove contact lenses if easy to do.

In case of skin contact: Remove and launder/clean contaminated clothing and shoes. Wash with soap and water for at least 15 minutes or until no evidence of material remains. Get medical attention if irritation occurs.

If inhalation: Remove from exposure and into fresh air immediately. Do not sit downwind of smoke. Use only outdoors or indoors with adequate ventilation. If excessive smoke is inhaled, remove victim to fresh air. If breathing is labored, give artificial respiration. Oxygen may be administered by a trained technician. Seek medical attention if breathing is difficult or discomfort occurs.

If ingestion: If swallowed, do not induce vomiting unless instructed to do so by medical personnel. Never induce vomiting or give anything by mouth to a victim who is unconscious or having convulsions. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

Effects of Short-Term (Acute) Exposure:

Inhalation: Ensure that burning fire sticks is not upwind of persons close. Prolonged inhalation of the smoke may cause eye and respiratory irritation and headache and/or nausea.

Skin Contact: Not expected to be irritating to the skin.

Eye Contact: Smoke or vapours from the burning fire sticks may cause transient eye discomfort.

Ingestion: Not considered a likely route of entry. May cause gastro-intestinal discomfort and irritation.

Effects of Long-Term (Chronic) Exposure: No chronic health effects anticipated or expected.

Medical Conditions Aggravated By Exposure: Exposure to this product may aggravate medical conditions relating to the respiratory tract and eyes.

- 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: In case of fire, use foam, dry chemical, or CO₂ extinguishers.

- 5.2 Special hazards arising from mixture:** Combustion or thermal decomposition may produce oxides of carbon. Water spray may be used to keep fire-exposed containers cool. Keep water runoff out of sewers and public waterways.

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

5.4 Special remarks on Fire Hazards:

As with most solid particulate organic materials, high concentrations of dusts from this product suspended in air are an explosive hazard in the presence of sparks, flames, and heat. Do not allow dust to accumulate on equipment and surfaces where this product is used. In the National Fire Protections Association (NFPA) Code 499, a "combustible dust" is any finely divided solid material 420 microns or less in diameter that presents a fire or explosion hazard when dispersed in air.

HAZARDOUS MATERIALS INFORMATION SYSTEM (HMIS) HAZARD INDEX:

HEALTH: 0

FLAMMABILITY: 1

REACTIVITY: 0

CHRONIC HEALTH:

PERSONAL PROTECTION: Gloves, skin protection

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protection. Evacuate surrounding areas, if necessary. Vacuum or carefully scoop up spilled materials and place into appropriate labeled containers for disposal. Waste must be disposed of in accordance with federal, state/provincial and local environmental regulations.

Spilled fire sticks may produce a slipping hazard. Prilled material is slippery to walk on.

Respiratory Protection: To avoid inhaling smoke/vapours, use self-contained breathing apparatus. Use only approved respirators by NIOSH or OSHA.

Skin protection: Wear suitable protective equipment to prevent skin contact. Nitrile gloves may be used. Wear sufficient clothing to prevent skin exposure.

Eye and Face Protection: Wear chemical goggles or full face protection.

Footwear: No specific recommendation.

Other: None

6.2 Environmental precautions

If safe to do so, cleanup spilled fire sticks and place in a secure container. Do not let this product remain in the environment. Ensure that spilled material does not enter sewers or natural waterways.

6.3 Methods and materials for containment and cleanup

Clean up spills immediately. Sweep up fire sticks and place into an appropriate container for disposal. Avoid generating dusts and remove all sources of heat, ignition and flame. Tools use must be spark-proof. Once the spill has been remediated, arrange for disposal of the containers. Properly label containers to identify contents.

Remedial Measures: Do not use unprotected hands to collect spilled material. Ensure proper protective equipment is used to prevent contact with skin and eyes. Avoid the creation of dust.

Large Spills: Shovel spilled product into adequate compatible containers, skimming soil as well to ensure all released product and contaminated soil is recovered. Properly close and label all containers for disposal.

Small Spills: Scoop or sweep up spilled contents and place in appropriate containers for disposal. Avoid creation of dust.

6.4 Reference to other sections

For disposal, see Section 13.

7. Handling and Storage

7.1 Precautions for safe handling

Handling Procedures: Put on appropriate personal protection. Avoid contact with eyes, skin and clothing. Avoid breathing vapours or dusts. Use only with adequate ventilation or use outside. Wash thoroughly and immediately after handling this product and before eating, drinking or smoking.

7.2 Conditions for safe storage, including incompatibilities

Storage: *Keep out of reach of children and animals.* Keep container closed when not in use and store in a dry area away from heat. Protect from sparks, heat or flame. Store separate from animal or human foodstuffs and away from incompatible materials.

Packaged material should be stored in conditions that avoid extremes of temperatures. When temperature extremes are avoided, this product has an expiration date of three years from the date of manufacture. When product is melted for use, care must be taken to avoid overheating the molten wax and causing oxidation of the product.

7.3 Specific end use(s)

No other uses except those mentioned in Section 1.3

8. Exposure Controls, Personal Protection

8.1 Control parameters

Components with workplace control parameters;

Wood Fibres, CAS No 9004-34-6	PEL: 15 mg/m ³ (total dust)
	PEL: 5 mg/m ³ (Respirable fraction)
	REL: 10 mg/m ³ (total dust)
	REL: 5 mg/m ³ (Respirable fraction)
	TLV: 10 mg/m ³

8.2 Exposure Controls

Engineering Controls: Only use outdoors where engineering controls are not required. If used indoors, provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours or dusts below their respective threshold limit values. Ensure that eyewash stations and safety showers are proximal to the work location. .

Respiratory Protection: To avoid inhaling smoke/vapours, use self-contained breathing apparatus. Use only approved respirators by NIOSH or OSHA.

Skin protection: Wear suitable protective equipment to prevent skin contact. Nitrile gloves may be used. Wear sufficient clothing to prevent skin exposure.

Eye and Face Protection: Wear chemical goggles or full face protection.

Footwear: No specific recommendation.

Other: None

Control of environmental exposure

Prevent from entering the environment through natural waterways, sewers or drains.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Solid fire sticks, red
Odour:	Odourless
Odour Threshold:	Not available
pH:	Not available
Melting Point/Freezing Point:	≈32°C
Initial Boiling Point:	Not determined
Flash Point:	>207°C
Evaporation Rate:	Not available
Flammability:	Not regulated as flammable or combustible
Upper Explosion Limit:	Not available
Lower Explosion Limit:	Not available
Vapour Pressure:	<0.004 mm Hg
Vapour Density:	> 1 (Air = 1) Not available
Relative Density:	0.85 – 0.95 gm/cc @25°C (water = 1)
Solubility:	Insoluble
Partition Coefficient:	Not available
Ignition Temperature:	340°C
Autoignition Temperature:	Product is NOT self-igniting
Decomposition Temperature:	Not available
Viscosity:	Not determined
Explosive Properties:	None
Oxidizing Properties:	None
Percent Volatiles:	0.0%

9.2 Other safety information: None

10. Stability and Reactivity

10.1 Reactivity

Not reactive. Hazardous polymerization is not expected to occur.

10.2 Chemical Stability

Stable under recommended storage conditions. Storage should be in a dry, cool area away from oxidizing agents, heat, sparks, flame and sources of ignition.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Unintentional fire, during which irritating and toxic gases may be generated.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Oxides of carbon, unidentified organic compounds in smoke.

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

No data available for LD₅₀ or LC₅₀ values.

12. Ecological Information

12.1 Toxicity

Data: No data available

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

Self-assessment. Extremely hazardous for water.

13. Disposal Considerations

13.1 Waste treatment methods

Product:

Do not reuse empty containers. 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:

TSCA, Toxic Substance Control Act: All components are listed.

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: Not classified as a hazard under these regulations.

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: Solvent Red #26, CAS No 4477-79-6
Right to Know Act

New Jersey Right to Know Components: Solvent Red #26, CAS No 4477-79-6

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: March 25, 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 Fifth 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