

MATERIAL SAFETY DATA SHEET - 16 Sections

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier #1170 - Wind and Waterproof Matches			[WHMIS Classification]
Product Use			
Manufacturer's Name		Supplier's Name Coghlan's Ltd.	
Street Address		Street Address 121 Irene Street	
City	Province	City Winnipeg	Province Manitoba
Postal Code	Emergency Telephone	Postal Code R3T 4C7	Emergency Telephone 1-877-264-4526
Date MSDS Revised February 1, 2012	MSDS Prepared By		Phone Number (204)284-9550

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (specific)	%	CAS Number	LD ₅₀ of Ingredient (specify species and route)	LC ₅₀ of Ingredient (specify species)
Potassium Chlorate	35	3811-04-9		
Phosphorus	4	7723-14-0		

SECTION 3 - HAZARDS IDENTIFICATION

Route of Entry	<input type="checkbox"/> Skin Contact	<input type="checkbox"/> Skin Absorption	<input type="checkbox"/> Eye Contact	<input type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion
[Emergency Overview]					
[WHMIS Symbols]					
[Potential Health Effects]					
<p>Flammable Solid – Ignites readily, burning fiercely. The combustion of large quantities of the product gives rise to significant quantities of irritant smoke with flames.</p>					

SECTION 4 - FIRST AID MEASURES

Skin Contact Wash with water, followed by soap and water. If large areas of the skin are effected, or if irritation arises seek medical care.
Eye Contact
Inhalation In severe cases, remove patient. If recovery is not rapid or product complete seek medical attention.
Ingestion If swallowed, rinse mouth with water. Seek medical attention and show this Data Sheet if possible.

[Optional, not required under WHMIS]

SECTION 5 – FIRE FIGHTING MEASURES

Flammable	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If yes, under which conditions?
Means of Extinction Use large volumes of water as a spray or fog, avoid use of water jet. Contain run-off water with temporary earth barriers. A self contained breathing apparatus and full protective clothing must be worn in fire conditions.			
Flashpoint (°C) and Method Does not flash	Upper Flammable Limit (% by volume)	Lower Flammable Limit (% by volume)	
Autoignition Temperature (°C)	Explosion Data – Sensitivity to Impact	Explosion Data – Sensitivity to Static Discharge	
Hazardous Combustion Products Ignites readily. Oxidising agent will assist combustion. Keep fire exposed containers cool by spraying with water.			
[NFPA]			

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures No naked lights. No smoking. Ensure suitable personal protection during removal of a spillage involving large quantities of product. This means wearing eye protection, PROBAN overalls and chemically resistant gloves. Carefully transfer to a waterproof container for disposal and soak contents with water. Due to the potassium chlorate content, product must be prevented from entering surface water or drains. When spillages or uncontrolled discharges into watercourses occur, the Environment Agency must be alerted.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures and Equipment Read the instructions before use. Do not breath smoke. Wash hands before meals and after use. When using do not eat, drink or smoke.
Storage Requirements Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Keep in original container, tightly closed in a safe place. Keep away from heat and sources of ignition. Store in a dry place. Storage Life: Physically and chemically stable for at least 4 years when stored in the original unopened sales container at ambient temperatures.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits	<input type="checkbox"/> ACGIH TLV	<input type="checkbox"/> OSHA PEL	<input type="checkbox"/> Other (specify)
Specific Engineering Controls (such as ventilation, enclosed process) Should it be necessary to enter a heavily smoke laden area, protective respiratory equipment and eye protection must be used.			
Personal Protective Equipment			
<input type="checkbox"/> Gloves	<input checked="" type="checkbox"/> Respirator	<input checked="" type="checkbox"/> Eye	<input type="checkbox"/> Footwear <input type="checkbox"/> Clothing <input type="checkbox"/> Other
If checked, please specify type See HSE Guidance Booklet (HS) G 53: "Respiratory Protective Equipment – a practical guide for users"			

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Odour and Appearance The match comprises of the main burning composition dipped onto the match splint and then tipped with a dark brown striker tip to facilitate ignition . Odourless.	Odour Threshold (ppm)
Specific Gravity (H ₂ O = 1)	Vapour Density (air=1) N/A	Vapour Pressure (mmHg) N/A
Evaporation Rate	Boiling Point (°C) N/A	Freezing Point (°C)
pH N/A	Coefficient of Water/Oil Distribution	[Solubility in Water] soluble

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability <input type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?
Incompatibility with Other Substances <input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones?
Stable under normal conditions.	
Reactivity, and under what conditions? Ignites readily.	
Hazardous Decomposition Products Combustion or thermal decomposition will evolve irritant vapours.	

SECTION 11– TOXICOLOGICAL INFORMATION

Effects of Acute Exposure	
Effects of Chronic Exposure	
Irritancy of Product Eye Contact: Combustion product may cause eye irritation. Ingestion: Harmful if swallowed.	
Skin Sensitization Possible risk of skin irritation.	Respiratory Sensitization Possible irritation to respiratory tract.
Carcinogenicity – IARC	Carcinogenicity – ACGIH
Reproductive Toxicity	Teratogenicity
Embryotoxicity	Mutagenicity
Name of Synergistic Products/Effects	

SECTION 12 – ECOLOGICAL INFORMATION

[Aquatic Toxicity]

This ecological assessment is calculated from data available on the components of the formulation.

Harmful to aquatic organisms.

Un-burned composition is non-selectively toxic to plants.

Not readily biodegradable.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal

Applies to unburned product. Do not contaminate ponds, waterways or ditches with chemical. Dispose of product according

To the requirements of the "Environmental Protection Act 1990". Empty containers should not be used for other purposes.

Disposal should be in accordance with local, state or national legislation.

SECTION 14 – TRANSPORT INFORMATION

Special Shipping Information

See section 16

PIN

TDG

[DOT]

[IMO]

[ICAO]

SECTION 15 – REGULATORY INFORMATION

[WHMIS Classification]

[OSHA]

[SERA]

[TSCA]

Users should ensure that they comply with any relevant local, state or national legislation.

EU Classification: Matches are NOT classified under the CHIP Regulations.

However Octavius Hunt Ltd does give the following safety advice: S2: Keep out of reach of children.

S13: Keep away from food, drink and animal feeding stuffs.

S16: Keep away from sources of ignition – NO smoking.

UK Regulatory: Health and Safety at Work act 1974.

Information: The Control of Substances Hazardous to Health Regulations may apply to this product.

SECTION 16 – OTHER INFORMATION

UN No. : 1944

UN Pack Group: III

AIR

ICAO/IATA Class.

-primary : 4.1 Flammable Solid

SEA

IMDG Class.

-primary : 4.1 Flammable Solid

Marine Pollutant

Proper Shipping Name: Matches, Safety

ROAD/RAIL

ADR/RID Class. : 4.1

This data sheet was prepared in accordance with Directive 91/155/EEC.