

# MATERIAL SAFETY DATA SHEET - 16 Sections

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier <b>#700 Wind/Waterproof Matches</b>			[WHMIS Classification]	
Product Use				
Manufacturer's Name		Supplier's Name <b>Coghlan's Ltd.</b>		
Street Address		Street Address <b>121 Irene Street</b>		
City	Province	City <b>Winnipeg</b>	Province <b>Manitoba</b>	
Postal Code	Emergency Telephone	Postal Code <b>R3T 4C7</b>	Emergency Telephone <b>1-877-264-4526</b>	
Date MSDS Revised <b>February 1, 2012</b>	MSDS Prepared By		Phone Number <b>(204)284-9550</b>	

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (specific)	%	CAS Number	LD <sub>50</sub> of Ingredient (specify species and route)	LC <sub>50</sub> of Ingredient (specify species)
Stick: Aspen or poplar stick impregnated with ammonium phosphate.				
Head: Potassium chlorate	40-70%	3811-04-09		
Red amorphous phosphorus	<5%	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] Safety matches pose few hazards in normal use.					
[WHMIS Symbols]					
[Potential Health Effects] The main hazard associated with matches arises because they are readily combustible and misuse may result in burns or uncontrolled fires.					

## SECTION 4 - FIRST AID MEASURES

Skin Contact Burns should be treated as normal burns. Place injured part under cold running water for 10 minutes. Do not break blisters or remove loose skin. Do not apply ointments or lotions. Dress area with clean, sterile material. If in doubt seek medical attention.
Eye Contact
Inhalation
Ingestion Unless large quantities of matches are ingested (>1 match per kilo of body weight) there is little risk to health following ingestion. If more than this quantity is ingested, seek medical attention.

[ Optional, not required under WHMIS ]

SECTION 5 – FIRE FIGHTING MEASURES

Flammable	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If yes, under which conditions? May ignite at temperatures in excess of 180°C.
Extinguishing Media Water			
Flashpoint (°C) and Method	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 Match fires produce much smoke containing small quantities of acidic gases.			
[NFPA]			

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures
If significant quantities of matches are released by breakage of the packaging then remove all sources of ignition, salvage any undamaged product and wet the remaining product before cleanup.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures and Equipment
Storage Requirements
Matches should be stored in a cool dry place away from potential sources of ignition and other highly flammable materials.
They should not be stacked higher than 4 meters above the ground. Adequate space around the product should be left to minimize the chances of impact damage.

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)						
No special measures are required when handling matches.						
Personal Protective Equipment	<input type="checkbox"/> Gloves	<input checked="" type="checkbox"/> Respirator	<input type="checkbox"/> Eye	<input type="checkbox"/> Footwear	<input type="checkbox"/> Clothing	<input type="checkbox"/> Other
If checked, please specify type						
Match fires produce much smoke containing small quantities of acidic gases such as phosphorus oxides. In large conflagrations involving matches breathing apparatus should be used.						

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Physical State	Odour and Appearance <b>Wooden sticks with an ignition tip.</b>	Odour Threshold (ppm) <b>Low, woody smell.</b>
Specific Gravity	Vapour Density (air=1)	Vapour Pressure (mmHg)
Evaporation Rate	Boiling Point (°C)	Freezing Point (°C)
pH	Coefficient of Water/Oil Distribution	[Solubility in Water] <b>Approx. 10 mg. of each match is soluble.</b>

**SECTION 10 – STABILITY AND REACTIVITY**

Chemical Stability	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?
Incompatibility with Other Substances	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, which ones?
Reactivity, and under what conditions? <b>Matches are perfectly stable under all normal ambient conditions and they have a long shelf life. If they become wet and subsequently dry out the burning characteristics of the product may be adversely affected.</b>		
Hazardous Decomposition Products		

**SECTION 11- TOXICOLOGICAL INFORMATION**

Effects of Acute Exposure	
Effects of Chronic Exposure	
Irritancy of Product	
Skin Sensitization	Respiratory Sensitization
Carcinogenicity – IARC	Carcinogenicity – ACGIH
Reproductive Toxicity	Teratogenicity
Embryotoxicity	Mutagenicity
Name of Synergistic Products/Effects	

SECTION 12 - ECOLOGICAL INFORMATION

[Aquatic Toxicity]

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal

Large quantities of matches can be safely disposed of by controlled combustion at an approved incinerator.

approved incinerator.

SECTION 14 - TRANSPORT INFORMATION

Special Shipping Information

Presents a minimal hazard. UN# 1944, Flammable solid. EMS: F-A, S-I

Packing Group III, Dangers Goods in limited quantity of Class 4.1

PIN

TDG

[DOT]

[IMO]

[ICAO]

SECTION 15 - REGULATORY INFORMATION

[WHMIS Classification]

Classified as Articles.

[OSHA]

[SERA]

[TSCA]

*This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.*

SECTION 16 - OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is only to describe the product. The data does not signify any warranty with regard to the products' properties.