

Coghlan's 7870 Magnesium Fire Starter

SDS Preparation Date (mm/dd/yyyy): 06/20/2023

Page 1 of 11

**SAFETY DATA SHEET****SECTION 1. IDENTIFICATION****Product identifier used on the label**: **Coghlan's 7870 Magnesium Fire Starter****Other means of identification** : 7870**Recommended use of the chemical and restrictions on use**: Fire starting  
Recommended restrictions: Keep out of reach of children.**Chemical family**

: Mixture of: Metal compounds

**Name, address, and telephone number of the supplier:****Coghlan's Ltd.**121 Irene Street  
Winnipeg, MB, Canada  
R3T 4C7

Supplier's Telephone # : (204) 284 9550

**24 Hr. Emergency Tel #** : +1(877) 264 4526**Name, address, and telephone number of the manufacturer:**

Refer to supplier

**SECTION 2. HAZARDS IDENTIFICATION****Classification of the chemical**

Black/grey metallic, Solid. Weak Odour

Classification for this preparation is based upon its use as a fire starter by making shavings and small particulate from the metal block. As shipped in mass form, this preparation is not considered to be a hazardous product and is not classifiable under the requirements of GHS.

**Label elements***Hazard pictogram(s)*

None required under U.S. OSHA Hazcom 2012 and Canadian WHMIS 2015 regulations.

*Signal Word*

No signal word

*Hazard statement(s)*

None required.

*Precautionary statement(s)*

Keep out of reach of children.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking.

In case of fire: Use carbon dioxide, dry sand, dry chemical or alcohol-resistant foam for extinction.

**Other hazards**

Other hazards which do not result in classification:

Risks of burning off for fine material or explosions after raising the dust. Toxic fumes, gases or vapours may evolve on burning. Inhalation of fumes may result in metal fume fever, a flu-like illness. May cause gastrointestinal irritation.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Coghlan's 7870 Magnesium Fire Starter**

SDS Preparation Date (mm/dd/yyyy): 06/20/2023

Page 2 of 11

**SAFETY DATA SHEET**

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Magnesium	Mg	7439-95-4	<b>68.00</b>
Iron	Fe	7439-89-6	<b>17.90</b>
Cerium	Ce	7440-45-1	<b>9.20</b>
Lanthanum	La	7439-91-0	<b>4.90</b>

**SECTION 4. FIRST-AID MEASURES****Description of first aid measures**

- Ingestion* : Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Rinse mouth thoroughly.. Consult a physician.
- Inhalation* : If the product is heated, damaged or processed (e.g. cut, grinded), and exposure occurs, the following methods are recommended: If breathed in, move person into fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. If irritation or symptoms develop, seek medical attention.
- Skin contact* : If the product is heated, damaged or processed (e.g. cut, grinded), and exposure occurs, the following methods are recommended: For skin contact, wash with soap and water while removing contaminated clothing. If irritation persists, seek prompt medical attention. Launder clothing before reuse.
- Eye contact* : If the product is heated, damaged or processed (e.g. cut, grinded), and exposure occurs, the following methods are recommended: In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists, seek prompt medical attention.

**Most important symptoms and effects, both acute and delayed**

- : Inhalation of dusts may cause respiratory irritation. May cause coughing and breathing difficulties. Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath.
- Direct eye contact may cause slight or mild, transient irritation. Iron particles in the eye may leave a "rust ring" or brownish stain on the cornea.
- Direct skin contact may cause slight or mild, transient irritation. Direct skin contact may cause temporary redness.

**Indication of any immediate medical attention and special treatment needed**

- : Provide general supportive measures and treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES****Extinguishing media***Suitable extinguishing media*

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

*Unsuitable extinguishing media*

- : None known.

**Special hazards arising from the substance or mixture / Conditions of flammability**

- : Flammable solid. Toxic fumes, gases or vapors may evolve on burning. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

**Flammability classification (OSHA 29 CFR 1910.106)**

- : Not flammable under normal conditions of handling.

**Hazardous combustion products**

- : Metal oxides; Other unidentified organic compounds.

**Special protective equipment and precautions for firefighters**

Coghlan's 7870 Magnesium Fire Starter

SDS Preparation Date (mm/dd/yyyy): 06/20/2023

Page 3 of 11

## SAFETY DATA SHEET

### *Protective equipment for fire-fighters*

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

### *Special fire-fighting procedures*

- : Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

### **Methods and material for containment and cleaning up**

- : Ventilate area of release. Eliminate all ignition sources. Stop the spill at source if it is safe to do so. Use inert, non-combustible absorbents to assist the pick up of material. Pick up and transfer to properly labeled containers. Contact the proper local authorities.

### **Special spill response procedures**

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the National Response Center in the United States (phone: 1-800-424-8802).  
US CERCLA Reportable quantity (RQ): None reported.

In Canada: Dispose of in accordance with federal, provincial and local hazardous waste laws.

## SECTION 7. HANDLING AND STORAGE

### **Precautions for safe handling**

- : Do not subject to excessive friction or mechanical shock. Use with adequate ventilation. Avoid breathing vapors, fumes or dust. Wash thoroughly after handling. Keep out of reach of children.

**Conditions for safe storage** : Keep striker away from friction causing materials, heat, flame, and sources of ignition. Store in a cool, dry, well ventilated area. Keep away from incompatibles. Store away from areas of excessive heat, open flames, sparks, and other possible sources of ignition. Keep container tightly closed.

**Incompatible materials** : Strong oxidizing agents

Coghlan's 7870 Magnesium Fire Starter

SDS Preparation Date (mm/dd/yyyy): 06/20/2023

Page 4 of 11

## SAFETY DATA SHEET

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Limits:</b>				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Magnesium	N/Av	N/Av	N/Av	N/Av
Iron	N/Av	N/Av	N/Av	N/Av
Cerium	N/Av	N/Av	N/Av	N/Av
Lanthanum	N/Av	N/Av	N/Av	N/Av

#### Exposure controls

##### Ventilation and engineering measures

: Use with adequate ventilation. Provide sufficient ventilation to keep vapour concentration below the given TLV and/or PEL. If product is processed in a manner that generates dusts or fumes, provide mechanical ventilation to control airborne exposure levels. Use explosion-proof electrical and ventilating equipment.

##### Respiratory protection

: Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Seek advice from respiratory protection specialists.

##### Skin protection

: For prolonged skin exposure, gloves impervious to the material are recommended. Advice should be sought from glove suppliers. Wear sufficient clothing to prevent skin contact.

##### Eye / face protection

: Safety goggles or glasses as appropriate for the job.

##### Other protective equipment

: An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

##### General hygiene considerations

: Avoid breathing vapors, fumes or dust. Avoid contact with skin, eyes and clothing. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** : Solid  
**Colour** : Black/grey metallic  
**Odour** : Weak Odour  
**Odour threshold** : Not applicable.  
**pH** : Not applicable.  
**Melting Point/Freezing point** : Not available.

##### Initial boiling point and boiling range

: Not available.

##### Flash point

: None.

##### Flashpoint (Method)

: Not applicable.

##### Evaporation rate (BuAe = 1)

: Not available.

##### Flammability

: Not flammable.

##### Lower explosion or flammability limit (% by vol.)

: Not available.

Coghlan's 7870 Magnesium Fire Starter

SDS Preparation Date (mm/dd/yyyy): 06/20/2023

Page 5 of 11

## SAFETY DATA SHEET

**Upper explosion or flammability limit (% by vol.)**

: Not available.

**Oxidizing properties**

: None known.

**Explosive properties**

: Not explosive.

**Vapour pressure**

: Not applicable.

**Relative vapour density**

: Not available.

**Relative density / Specific gravity**

: Not available.

**Solubility in water**

: Insoluble.

**Other solubility(ies)**

: Not applicable.

**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution**

: Not available.

**Auto-ignition temperature**

: Not available.

**Decomposition temperature**

: Not available.

**Viscosity**

: Not available.

**Particle characteristics**

: Not available.

**Volatiles (% by weight)**

: Not available.

**Volatile organic Compounds (VOC's)**

: Not applicable.

**Absolute pressure of container**

: Not applicable.

**Flame projection length**

: Not applicable.

**Other physical/chemical comments**

: No additional information.

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity**

: Not normally reactive.

**Chemical stability**

: Material is stable under normal conditions.

**Possibility of hazardous reactions**

: Hazardous polymerization does not occur.

**Conditions to avoid**

: Avoid excessive heat, sparks and open flame. Avoid contact with incompatible materials.

**Incompatible materials**

: Incompatible materials (see Section 7).

**Hazardous decomposition products**

: None known, refer to hazardous combustion products in Section 5.

### SECTION 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure:****Routes of entry inhalation** : YES**Routes of entry skin & eye** : YES**Routes of entry Ingestion** : YES**Routes of exposure skin absorption**

: NO

**Coghlan's 7870 Magnesium Fire Starter**

SDS Preparation Date (mm/dd/yyyy): 06/20/2023

Page 6 of 11

## SAFETY DATA SHEET

**Potential Health Effects:**
**Signs and symptoms of short-term (acute) exposure**
*Sign and symptoms Inhalation*

- : If the product is heated, damaged or processed (e.g. cut, grinded), hazardous properties may include the following:  
Inhalation of dusts may cause respiratory irritation. May cause coughing and breathing difficulties. Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath.

*Sign and symptoms ingestion*

- : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

*Sign and symptoms skin*

- : Direct skin contact may cause slight or mild, transient irritation.

*Sign and symptoms eyes*

- : May cause mild irritation, redness and watering. Iron particles in the eye may leave a "rust ring" or brownish stain on the cornea.

**Potential Chronic Health Effects**

- : Prolonged or repeated overexposure could cause adverse liver effects.  
If the product is heated, damaged or processed (e.g. cut, grinded), hazardous properties may include the following:  
Prolonged or repeated inhalation of dusts could cause lung disease (pneumoconiosis).

**Mutagenicity**

- : Not expected to be mutagenic in humans. No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**

- : Not classifiable as a human carcinogen.  
No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

**Reproductive effects & Teratogenicity**

- : This product is not expected to cause reproductive or developmental effects.

**Sensitization to material**

- : Not expected to be a skin or respiratory sensitizer.

**Specific target organ effects**

- : According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015), this product is not expected to cause target organ toxicity through single or repeated exposures.

**Medical conditions aggravated by overexposure**

- : Pre-existing skin, eye and respiratory disorders.

**Synergistic materials**

- : Not available.

**Toxicological data**

- : Not classified for acute toxicity based on available data. No data is available on the product itself.  
See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u>	<u>LD<sub>50</sub></u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Magnesium	N/Av	N/Av	N/Av
Iron	N/Av	30,000 mg/kg	N/Av
Cerium	N/Av	N/Av	N/Av
Lanthanum	N/Av	N/Av	N/Av

**Other important toxicological hazards**

- : None known or reported by the manufacturer.

**Coghlan's 7870 Magnesium Fire Starter**

SDS Preparation Date (mm/dd/yyyy): 06/20/2023

Page 7 of 11

## SAFETY DATA SHEET

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** : No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. See the following tables for individual ingredient ecotoxicity data.

**Ecotoxicity data:**

<u>Ingredients</u>	<b>CAS #</b>	<b>Toxicity to Fish</b>		
		<b>LC50 / 96h</b>	<b>NOEC / 21 day</b>	<b>M Factor</b>
Magnesium	7439-95-4	N/Av	N/Av	N/Av
Iron	7439-89-6	> 10 000 mg/L (Zebra fish) (Read-across)	N/Av	None.
Cerium	7440-45-1	N/Av	N/Av	None.
Lanthanum	7439-91-0	N/Av	N/Av	None.

<u>Ingredients</u>	<b>CAS #</b>	<b>Toxicity to Daphnia</b>		
		<b>EC50 / 48h</b>	<b>NOEC / 21 day</b>	<b>M Factor</b>
Magnesium	7439-95-4	N/Av	N/Av	N/Av
Iron	7439-89-6	> 100 mg/L (Daphnia magna) (Read-across)	5.9 mg/L (Read-across)	None.
Cerium	7440-45-1	N/Av	N/Av	None.
Lanthanum	7439-91-0	N/Av	N/Av	None.

<u>Ingredients</u>	<b>CAS #</b>	<b>Toxicity to Algae</b>		
		<b>EC50 / 96h or 72h</b>	<b>NOEC / 96h or 72h</b>	<b>M Factor</b>
Magnesium	7439-95-4	N/Av	N/Av	N/Av
Iron	7439-89-6	N/Av	N/Av	None.
Cerium	7440-45-1	N/Av	N/Av	None.
Lanthanum	7439-91-0	N/Av	N/Av	None.

**Persistence and degradability**

: Biodegradation is not applicable to inorganic substances.

**Bioaccumulation potential**

: No data is available on the product itself.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
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**Mobility in soil** : No data is available on the product itself.

**Other Adverse Environmental effects**

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**Coghlan's 7870 Magnesium Fire Starter**
**SDS Preparation Date (mm/dd/yyyy): 06/20/2023**





Page 8 of 11

## SAFETY DATA SHEET

### SECTION 13. DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be disposed of in a safe way.
- Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None.	Not regulated.	not regulated	none	
<b>49CFR/DOT Additional information</b>	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
<b>ICAO/IATA Additional information</b>	None.				
TDG	None.	Not regulated.	not regulated	none	
<b>TDG Additional information</b>	None.				
IMDG	None.	Not regulated.	not regulated	none	
<b>IMDG Additional information</b>	None.				

**Special precautions for user** : Note: The product is not in a powder state, it is a block solid, and it is relatively hard. Generally, the powder will not come out when rubbed against the goods. It must be scraped continuously with a knife with a hardness of 60HRC, so that the powder will come out. This product will not burn if it is placed on a fire for 10 minutes continuously, so it can be transported as ordinary cargo.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.





**Coghlan's 7870 Magnesium Fire Starter**

**SDS Preparation Date (mm/dd/yyyy): 06/20/2023**

Page 9 of 11

**SAFETY DATA SHEET**

**SECTION 15 - REGULATORY INFORMATION**

**US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de Minimis Concentration
Magnesium	7439-95-4	Yes	N/Ap	N/Av	No	No
Iron	7439-89-6	Yes	None.	None.	No	No
Cerium	7440-45-1	Yes	N/Ap	N/Av	No	No
Lanthanum	7439-91-0	Yes	N/Ap	N/Av	No	No

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None reported. .

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

**US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Magnesium	7439-95-4	No	N/Ap	Yes	Yes	No	Yes	Yes	Yes
Iron	7439-89-6	No	N/Ap	Yes	No	No	No	No	No
Cerium	7440-45-1	No	N/Ap	No	No	No	Yes	No	No
Lanthanum	7439-91-0	No	N/Ap	No	No	No	No	No	No

**Canadian Information:**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

**International Information:**

Components listed below are present on the following International Inventory list:

**Coghlan's 7870 Magnesium Fire Starter**

SDS Preparation Date (mm/dd/yyyy): 06/20/2023

Page 10 of 11

## SAFETY DATA SHEET

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECs</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>NewZealand IOC</u>
Magnesium	7439-95-4	231-104-6	Present	Present	N/Av	KE-22673	Present	HSR001470
Iron	7439-89-6	231-096-4	Present	Present	Not listed	KE-21059	Present	May be used as a single component chemical under an appropriate group standard.
Cerium	7440-45-1	231-154-9	Present	Present	N/Av	KE-05379	N/Av	HSR006252
Lanthanum	7439-91-0	231-099-0	Present	Present	N/Av	KE-21820	N/Av	Present

### SECTION 16. OTHER INFORMATION

**Legend**

: ACGIH: American Conference of Governmental Industrial Hygienists  
 AICS: Australian Inventory of Chemical Substances  
 CAS: Chemical Abstract Services  
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
 CFR: Code of Federal Regulations  
 DOT: Department of Transportation  
 ENCS: Existing and New Chemical Substances  
 EPA: Environmental Protection Agency  
 HSDB: Hazardous Substances Data Bank  
 IARC: International Agency for Research on Cancer  
 IATA: International Air Transport Association  
 IBC: Intermediate Bulk Container  
 ICAO: International Civil Aviation Organisation  
 IECSC: Inventory of Existing Chemical Substances  
 IMDG: International Maritime Dangerous Goods  
 Inh: Inhalation  
 IOC: Inventory of Chemicals  
 KECI: Korean Existing Chemicals Inventory  
 KECL: Korean Existing Chemicals List  
 LC: Lethal Concentration  
 LD: Lethal Dose  
 N/Av: Not Applicable  
 N/Av: Not Available  
 NIOSH: National Institute of Occupational Safety and Health  
 NOEC: No observable effect concentration  
 NTP: National Toxicology Program  
 OECD: Organisation for Economic Co-operation and Development  
 OSHA: Occupational Safety and Health Administration  
 PEL: Permissible exposure limit  
 PICCS: Philippine Inventory of Chemicals and Chemical Substances  
 RTECS: Registry of Toxic Effects of Chemical Substances  
 SARA: Superfund Amendments and Reauthorization Act  
 STEL: Short Term Exposure Limit  
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
 TLV: Threshold Limit Values  
 TSCA: Toxic Substance Control Act  
 TWA: Time Weighted Average  
 WHMIS: Workplace Hazardous Materials Identification System

**Coghlan's 7870 Magnesium Fire Starter**

SDS Preparation Date (mm/dd/yyyy): 06/20/2023

Page 11 of 11

**SAFETY DATA SHEET**

- References** :
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices
  2. ECHA - European Chemical Agency
  3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases
  4. Safety Data Sheets from manufacturer.
  5. US EPA Title III List of Lists
  6. California Proposition 65 List
  7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

**Preparation Date (mm/dd/yyyy)**

: 06/20/2023

**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

<b><u>Prepared for:</u></b> Coghlan's Ltd. 121 Irene Street Winnipeg, MB R3T 4C7 Telephone: (204) 284 9550 email: info@coghlan.com Website: https://www.coghlan.com	
<b><u>Prepared by:</u></b> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a>	

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