





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 Lighters
- 1.2 **Other Means of Identification:** None
- 1.3 **Product Use:** Cigarette Lighters and Multi-Purpose Utility Lighters
- 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**
- GHS Classification:** Flammable Gases, Category 1A
Gases Under Pressure, Liquefied Gas
- 2.2 **GHS Label Elements, including precautionary statements**
- Pictogram:**  
- Signal Word:** Danger
- GHS Hazard Statements:** H220: Extremely flammable gas
H280: Contains gas under pressure; may explode if heated.

GHS Precautionary Statements:

Prevention:	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response:	P377: Leaking gas fire: Do not extinguish unless leak can be stopped first. P381: In case of leakage, eliminate all ignition sources.
Storage:	P410 +P403: Protect from sunlight. Store in a well-ventilated place.
Disposal:	None

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS: Gases under pressure, when released, may cause cryogenic burns (frostbite). Read label before use. Keep out of the reach of children. Follow instructions and warnings provided by the manufacturer when using this product. Fire and explosion hazards when exposed to heat or flame. Containers may explode when heated. Vapours may travel to source of ignition and flash back. May vent and release flammable gas through pressure relief devices. Do not inhale contents.

2.4 Additional Information

Primary Routes of Entry:

Skin Contact:	Yes, relating to frostbite on unprotected skin.
Skin Absorption:	No
Eye Contact:	No
Ingestion:	No
Inhalation:	Yes

Emergency Overview: When lighting a lighter, care must be taken to prevent flame contact with skin.

Effects of Short-Term (Acute) Exposure:

Inhalation: No known significant health effects or critical hazards.

Skin Contact: Dermal contact with rapidly evaporating liquid could result in freezing of the tissue or frostbite.

Eye Contact: Liquid could cause burns similar to frostbite.

Ingestion: Ingestion of liquid could cause burns similar to frostbite.

Effects of Long-Term (Chronic) Exposure: No adverse health effects are indicated. Acute health effects are more serious.

Medical Conditions Aggravated By Exposure: None known

3. Composition

3.1 Mixture composition

Component	% (w/w)	GHS Classification
Hydrocarbon gases such as butane/propane mixtures Butane CAS No 106-97-8 EINECS No 203-448-7 Propane CAS No 74-98-6 EINECS No 200-827-9	100	Flammable Gases, Category 1A Gases Under Pressure, Liquefied Gas
Other undisclosed ingredients and fillers	None	N/d

4. First Aid Measures

4.1 Description of First Aid Measures

General advice: If ingested, immediately call a POISON CONTROL CENTER, doctor or nearest hospital for treatment advice. For burns, seek medical advice. Wash hands after handling. Do not eat drink or smoke until washing the hands.

In case of eye contact: Immediately flush eyes with plenty of water, occasionally lifting upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention if irritation occurs and persists.

In case of skin contact: Flush skin with plenty of water. To avoid the risk of static charges and gas ignition, soak contaminated clothing with water before removing. Get medical attention if symptoms occur. In case of contact with liquid, warm frozen tissues slowly with lukewarm water and get medical attention. Do not rub affected area. Wash clothing before reuse. Clean footwear thoroughly before reuse.

If inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing or if breathing is irregular, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse effects persist or are severe. If unconscious, place in recovery position and get medical help immediately. Maintain an open airway.

If ingestion: Remove victim to fresh air and keep in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe. Ingestion of liquid can cause burns similar to frostbite. If frostbite occurs, get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in a recovery position and get medical assistance immediately. Maintain an open airway. Since this product rapidly becomes a gas when released, refer to the "Inhalation" section.

4.2 Most important symptoms and effects, both acute and delayed

Effects of Short-Term (Acute) Exposure:

Inhalation: No known significant health effects or critical hazards.

Skin Contact: Dermal contact with rapidly evaporating liquid could result in freezing of the tissue or frostbite.

Eye Contact: Liquid could cause burns similar to frostbite.

Ingestion: Ingestion of liquid could cause burns similar to frostbite.

Effects of Long-Term (Chronic) Exposure: No adverse health effects are indicated. Acute health effects are more serious.

Medical Conditions Aggravated By Exposure: None known

- 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: Product is flammable. For a small fire, use dry chemical or CO₂. For larger fires, use alcohol-resistant foam, water spray or fog.

- 5.2 Special hazards arising from mixture:** Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may rupture with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion.

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: Yes
Sensitivity to Static Discharge: Yes

HAZARDOUS MATERIALS INFORMATION SYSTEM (HMIS) HAZARD INDEX:

HEALTH: 1

FLAMMABILITY: 4

REACTIVITY: 0

PERSONAL PROTECTION: None

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

All spill responders involved in a cleanup of this product must follow good industrial hygiene practices. A small spill can be handled routinely. Wear suitable protective equipment and eye protection to prevent skin and eye contact.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN14387) respirator cartridge as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Skin protection: Handle with gloves.

Eye and Face Protection: Face shield and safety glasses.

Footwear: No specific recommendation.

Other: None

6.2 Environmental precautions

Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.

6.3 Methods and materials for containment and cleanup

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

Large Spills: Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof and explosion-proof equipment.

Small Spills: Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

6.4 Reference to other sections

For disposal, see Section 13.

7. Handling and Storage

7.1 Precautions for safe handling

Handling Procedures: Contains gas under pressure. Keep away from heat and ignition sources. Keep out of the sunlight.

7.2 Conditions for safe storage, including incompatibilities

Storage: *Keep out of reach of children and animals.* Store in a cool, dry, well-ventilated area away from heat, flame, sources of ignition, direct sunlight, foodstuffs and clothing. Empty containers may contain residues which are hazardous. Store away from incompatible materials such as strong oxidizers and acids.

In bulk storage areas, post "NO SMOKING" signs. Have appropriate fire extinguishers located in an accessible place near storage area. Prevent static discharges and use proper grounding procedures.

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

Butane, CAS No 106-97-8	TLV-TWA:1000 ppm, ACGIH TLV-TWA: 800 ppm, NIOSH Recommended Exposure Limits
Propane, CAS No 74-98-6	TLV-TWA: 1000 ppm, ACGIH TLV-TWA: 1000 USA-Occupational Exposure Limits OSHA Table Z-1, Limits for air Contaminants

* ACGIH: American Conference of Governmental Industrial Hygienists. Exposure limits may vary from time to time and from one jurisdiction to another. NIOSH: National Institute For Occupational Safety and Health. Check with local regulatory agency for the exposure limits in your area.

8.2 Exposure Controls

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN14387) respirator cartridge as a backup to engineering controls. If the respirator is the soles means of protection, use a full-face supplied air respirator.

Skin protection: Handle with gloves.

Eye and Face Protection: Face shield and safety glasses.

Footwear: No specific recommendation.

Other: None

Control of environmental exposure

Emissions from ventilation or wrok process equipment should be checked to ensure they comply with the requirements of envirnmental protection legislation.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Gas, liquefied gas, colourless
Odour:	Odourless to faint gas odour.
Odour Threshold:	No data
pH:	No data
Melting Point/Freezing Point:	-188°C (-306°F) Typical for Propane
Initial Boiling Point:	-15°C to 0°C (5°F to 32°F)
Flash Point:	-90°C to -73°C (-130°F to -99.4°F)
Evaporation Rate:	Not available
Flammability:	Flammable
Upper Explosion Limit:	8.8%
Lower Explosion Limit:	1.8
Vapour Pressure:	150 to 250 kPa (20°C)
Vapour Density:	0.56
Relative Density:	1.3 gm/cc (water = 1)
Solubility:	Insoluble in hot or cold water
Partition Coefficient:	Not available
Autoignition Temperature:	No data
Decomposition Temperature:	Not available
Viscosity:	Not available
Explosive Properties:	Not available
Oxidizing Properties:	Not available

Percent Volatiles: Not available

9.2 Other safety information: None

10. Stability and Reactivity

10.1 Reactivity

No specific test data available relating to reactivity for this product or its ingredients.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No known hazardous reactions under normal conditions of storage and use.

10.4 Conditions to avoid

Heat, sparks, flames and sources of ignition. Do not smoke.

10.5 Incompatible materials

Strong oxidizing agents and acids.

10.6 Hazardous decomposition products

Oxides of carbon.

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.

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 ₅₀	LC ₅₀
Butane CAS No 106-97-8	N/av	N/av
Propane CAS No 74-98-6	N/av	N/av

ABBREVIATION KEY: N/p: not published, N/d: not determined, N/ap: not applicable, N/av: not available

12. Ecological Information

12.1 Toxicity

Aquatic, Acute Aquatic Toxicity, Category 2: H401: Toxic to aquatic life

Aquatic, Chronic Aquatic Toxicity, Category 2: H411: Toxic to aquatic life with long lasting effects

Data:

Butane/Propane: *Toxicity to algae*, No available data
Toxicity to fish, No available data
Toxicity to daphnia and other aquatic invertebrates,
 No available data

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 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): UN 1057, Lighters, Class 2.1

United States Department of Transport (49CFR): UN 1057, Lighters, Class 2.1

International Air Transport Association (IATA): UN 1057, Lighters, Class 2.1

International Maritime Organization (IMO): UN 1057, Lighters, Class 2.1
EmS No F-D, S-U, Stowage Category B



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 chemical subject to the reporting requirements.

SARA 311/312 Hazardous Chemical: Fire hazard, Chronic health 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:

Propane, CAS No 74-98-6	Rev Date 1993-04-24
Butane, CAS No 106-97-8	Rev Date 1994-04-01

Pennsylvania Right to Know Components:

Propane, CAS No 74-98-6	Rev Date 1993-04-24
Butane, CAS No 106-97-8	Rev Date 1994-04-01

New Jersey Right to Know Components:

Propane, CAS No 74-98-6	Rev Date 1993-04-24
Butane, CAS No 106-97-8	Rev Date 1994-04-01

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 28, 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.

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Revisions: None