



SAFETY DATA SHEET

This Safety Data Sheet complies with the Canadian Hazardous 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 Glowsticks
- 1.2 Other Means of Identification:** Glow Stick, Glow Bracelet, Glow Necklace, Glow Cup, Glow Wand
Green: 9200, 9200BD, 9202
Red: 9820, 9821, 9821BD
Blue: 9830, 9831, 9831BD
Orange: 9836, 9837, 9837BD
Yellow: 9840, 9841, 9841BD
Halloween Display: 9837HL
Assorted Colours: 9845, 9848
- 1.3 Product Use:** Light producing device, decoration
- 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:** Not classifiable under GHS
- 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: Yes, if broken or damaged

Skin Absorption: No

Eye Contact: Yes, if broken or damaged

Ingestion: No

Inhalation: No

Emergency Overview: This product is unlikely to have any health effects if used as directed. Damaged (leaking) glow sticks may irritate the skin or eyes upon contact. Accidental ingestion may cause gastro-intestinal upset.

Effects of Short-Term (Acute) Exposure:

Inhalation: No adverse health effects are anticipated.

Skin Contact: Contact with skin may cause slight skin irritation. Skin rash may occur in persons predisposed to skin problems.

Eye Contact: Eye irritation may occur.

Ingestion: Accidental ingestion may cause slight stomach upset.

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

Medical Conditions Aggravated By Exposure: Skin irritation may be magnified in persons predisposed to skin problems.

Medical Conditions Aggravated By Exposure: Previous history of skin problems may aggravate skin problems.

3. Composition

3.1 Mixture composition

Component	% (w/w)	GHS Classification
Dimethyl Phthlate CAS No 131-11-3 EINECS No 205-011-6	58.5	No GHS Classification
Butyl Benzoate CAS No 136-60-7 EINECS No 205-252-7	28.5	Acute Toxicity, Oral, Category 4 Skin Irritation, Category 2 Eye Irritation, Category 2A
Water CAS No 7732-18-5 EINECS No	6.0	No GHS Classification
Bis(2-carbopentyloxy-3,5,6-trichlorophenyl) oxalate CAS No 75203-51-9 EINECS No 278-124-9	4.7	No GHS Classification
Hydrogen Peroxide CAS No 7722-84-1 EINECS No 231-765-0	2.2	Skin Corrosion, Category 1A Serious Eye Damage, Category 1 STOT-SE, Category 3, Respiratory Acute and Chronic Aquatic Toxicity, Category 3
Anthracene, 9,10-bis(phenylethynyl) CAS No 10075-85-1 EINECS No 233-210-8	0.1	Skin Irritation, Category 2 Eye Irritation, Category 2A STOT-SE, Category 3, Respiratory
Other undisclosed ingredients and fillers	0	No GHS Classification

4. First Aid Measures

4.1 Description of First Aid Measures

General advice: If you feel unwell, seek medical attention (show directions for use or this safety data sheet if possible).

In case of eye contact: Rinse cautiously with water for several minutes while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation occurs, seek medical attention.

In case of skin contact: Wash skin with plenty of water and take off contaminated clothing. If skin irritation or rash occurs, seek medical advice.

If inhalation: Remove from exposure and into fresh air immediately. Keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.

If ingestion: If swallowed, rinse mouth. Do NOT induce vomiting. Give nothing by mouth to an unconscious person. If you feel unwell, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Effects of Short-Term (Acute) Exposure:

Inhalation: No adverse health effects are anticipated.

Skin Contact: Contact with skin may cause slight skin irritation. Skin rash may occur in persons predisposed to skin problems.

Eye Contact: Eye irritation may occur.

Ingestion: Accidental ingestion may cause slight stomach upset.

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

Medical Conditions Aggravated By Exposure: Skin irritation may be magnified in persons predisposed to skin problems.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. Fire Fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media: Use carbon dioxide, dry extinguishing media, water spray or water.

5.2 Special hazards arising from mixture: Combustion or thermal decomposition may produce toxic or irritating fumes.

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

HAZARDOUS MATERIALS INFORMATION SYSTEM (HMIS) HAZARD INDEX:

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

CHRONIC HEALTH: *

PERSONAL PROTECTION: None

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Do not breathe vapours/spray (if combusted). Avoid contact with skin, eyes and inhalation of vapours. Do not attempt to take action without suitable protective equipment. For further information refer to section 8.

Respiratory Protection: Under normal conditions of use, no respiratory protection is indicated. apparatus. If concentrations in air exceed exposure limits, use only approved respirators by NIOSH or OSHA.

50 mg/m ³	Any air purifying full-facepiece respirator equipped With an N95, R95 or P95 cartridge.
125 mg/m ³	Any supplied air respirator operated in a continuous flow mode. Any powered, air-purifying respirator with a high efficiency particulate filter.
250 mg/m ³	Any air purifying full-facepiece respirator equipped With an N100, R100 or P100 cartridge. Any self-contained breathing apparatus with a full face-piece.

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 splash resistant safety goggles.

Footwear: No specific recommendation.

Other: Provide an emergency eye wash fountain.

6.2 Environmental precautions

Although the product is not classified as dangerous to the environment, it is advised that in the event of an accidental release the product should be prevented from reaching the sewer or any water course, and from penetrating the ground/soil. Dispose of spilled material in accordance with instruction in Section 13.

6.3 Methods and materials for containment and cleanup

Clean up spills immediately. Isolate spill and ensure good ventilation. Contain in properly labeled container for disposal.

Remedial Measures: Place into properly labeled containers for disposal. Apply suitable absorbent material such as vermiculite, sand or sawdust and then shovel into the above container for disposal.

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: See Remedial Measures.

6.4 Reference to other sections

For disposal, see Section 13.

7. Handling and Storage

7.1 Precautions for safe handling

Handling Procedures: Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Observe personal protective measures listed in Section 8. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Keep away from heat, sparks, flame and other sources of ignition. Avoid breathing vapours or mists.

Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Remove contaminated clothing and protective equipment before entering eating area. Avoid formation of mists.

7.2 Conditions for safe storage, including incompatibilities

Storage: Keep out of reach of children and animals. Keep containers tightly closed in a cool, dry and well-ventilated area. Keep away from heat, sparks, hot surfaces, open flames and other ignition sources. No smoking. Keep away from foodstuffs. Always keep in containers of the same material as the original. Store away from incompatible materials such as reducing agents, nitrite salts and potassium chlorate.

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

Dimethyl Phthalate, CAS No 131-11-3	5.0 mg/m ³ ACGIH TLV-TWA
Hydrogen Peroxide, CAS No 7722-84-1	1 ppm ACGIH TLV-TWA

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

8.2 Exposure Controls

Engineering Controls: Ensure good ventilation at the work station. Emergency eye wash stations and drench showers should be located near the workspace. Use clear of any heat sources.

Respiratory Protection: Under normal conditions of use, no respiratory protection is indicated. apparatus. If concentrations in air exceed exposure limits, use only approved respirators by NIOSH or OSHA.

50 mg/m ³	Any air purifying full-facepiece respirator equipped With an N95, R95 or P95 cartridge.
125 mg/m ³	Any supplied air respirator operated in a continuous flow mode. Any powered, air-purifying respirator with a high efficiency particulate filter.
250 mg/m ³	Any air purifying full-facepiece respirator equipped With an N100, R100 or P100 cartridge. Any self-contained breathing apparatus with a full face-piece.

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 splash resistant safety goggles.

Footwear: No specific recommendation.
Other: Provide an emergency eye wash fountain.

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:	Liquid
Odour:	No data available
Odour Threshold:	No data available
pH:	No data available
Melting Point/Freezing Point:	No data available
Initial Boiling Point:	No data available
Flash Point:	>93.3°C [Closed Cup]
Evaporation Rate:	No data available
Flammability:	Not classified as flammable
Upper Explosion Limit:	No data available
Lower Explosion Limit:	No data available
Vapour Pressure:	No data available
Vapour Density:	No data available
Relative Density:	No data available
Solubility:	No data available
Partition Coefficient:	No data available
Autoignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available
Explosive Properties:	Not explosive based on experience and structural considerations
Oxidizing Properties:	Not oxidizing based on experience and structural considerations
Percent Volatiles:	Not explosive based on experience and structural considerations

9.2 **Other safety information:** None

10. Stability and Reactivity

10.1 Reactivity

Stable under recommended storage and handling conditions. (See Section 7)

10.2 Chemical Stability

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

10.3 Possibility of hazardous reactions

Will not polymerize.

10.4 Conditions to avoid

Avoid heat, flames, sparks, and other ignition sources. Avoid contact with incompatibles materials.

10.5 Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide and other toxic fumes.

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

Component	LD ₅₀	LC ₅₀
Dimethyl phthalate CAS No 131-11-3	6800 mg/kg (oral/rat)	
Butyl Benzoate Cas No 136-60-7	735 mg/kg (oral/rat)	
Hydrogen Peroxide CAS No 7722-84-1	801 mg/kg (oral/rat) 2000 mg/kg (dermal/rabbit) 4060 mg/kg (dermal/rat)	2 g/m ³ (inhalation/rat, 4 hr)

12. Ecological Information

12.1 Toxicity

Dimethyl Phthalate:

Fish: LC₅₀ (pimephales promelas) 39 mg/l, 96 hour
 LC₅₀ (Lepomis macrochius) 49.5 mg/l, 96 hour
 LC₅₀ (Oncorhynchus Mykiss) 56 mg/l, 96 hour

Daphnia:	EC ₅₀ (Daphnia Magna) 33mg/l, 48 hour
Algae:	EC ₅₀ (Pseudokirchneriella subcapitata) 20.6 – 45.8 mg/l, 96 hour EC ₅₀ (Pseudokirchneriella subcapitata) 28.4 – 71 mg/l, 72 hour EC ₅₀ (Skeletonema costatum) 26.1 mg/l, 96 hour
<i>Hydrogen Peroxide:</i>	
Fish:	LC ₅₀ (pimephales promelas) 16.4 mg/l, 96 hour LC ₅₀ (Lepomis macrochius) 18 - 56 mg/l, 96 hour LC ₅₀ (Oncorhynchus Mykiss) 10 - 32 mg/l, 96 hour
Daphnia:	EC ₅₀ (Daphnia Magna) 18 – 32 mg/l, 48 hour (static)
Algae:	EC ₅₀ 2.5 mg/l, 72 hour, species not specified

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Dimethyl Phthalate, (CAS No 131-11-3), BCF fish 1, 4.7 – 57, Log P_{ow} 2.12

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not conducted

12.6 Other adverse effects

1990 Hazardous Air Pollutant: Dimethyl Phthalate

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: Components listed

CERCLA Hazardous Substance List (40 CFR 302.4) Dimethyl Phthalate, RQ: 5000 pounds

SARA 302 Extremely hazardous substance: Hydrogen Peroxide, RQ 1000 pounds, >52%
TPQ 1000 pounds, >52%

SARA 311/312 Hazardous chemical: Not hazardous

SARA 313 (TRI reporting): SARA 313: Dimethyl Phthalate

Other State Regulations:

Massachusetts Right to Know Components:

Dimethyl Phthalate, CAS No 131-11-3	Revision Date: 2007-07-01
Hydrogen Peroxide, CAS No 7722-84-1	Revision Date: No date given

Pennsylvania Right to Know Components:

Dimethyl Phthalate, CAS No 131-11-3	Revision Date: 2007-07-01
Butyl Benzoate, CAS No 136-60-7	Revision Date: 1989-08-11
Bis(2-carbopentyloxy-3,5,6-trichlorophenyl) oxalate, CAS No 75203-51-9	Revision date: No date given
Hydrogen Peroxide, CAS No 7722-84-1	Revision Date: No date given
Anthracene, 9,10-bis(phenylethynyl) CAS No 10075-85-1	Revision date: No date given

New Jersey Right to Know Components:

Dimethyl Phthalate, CAS No 131-11-3	Revision Date: 2007-07-01
Butyl Benzoate, CAS No 136-60-7	Revision Date: 1989-08-11
Bis(2-carbopentyloxy-3,5,6-trichlorophenyl) oxalate, CAS No 75203-51-9	Revision date: No date given
Hydrogen Peroxide, CAS No 7722-84-1	Revision Date: No date given
Anthracene, 9,10-bis(phenylethynyl) CAS No 10075-85-1	Revision date: No date given

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.

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Revisions: December 13, 2018, Section 2.4 reviewed and errors corrected.