Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Chemical Glow Stick, Lightstick
Product Use: Light sources.
Product Number: 25013, 27017, 27019, 27014, 27015, 27016

Manufacturer/Supplier: 1150 Simpson Way
Escondido, CA 92029

Phone Number: Toll-Free (800) 959-4053

Emergency Phone: 1-877-277-9799

Date of Preparation: March 10, 2010

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION
MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, eye contact, and ingestion.

Eye:
Not applicable under normal conditions of use. May cause eye irritation following exposure to a leaking product.

Skin:
Not applicable under normal conditions of use. May cause skin irritation following exposure to a leaking product.

Ingestion:
Not applicable under normal conditions of use. May be harmful and irritating if swallowed to the internal/external mouth area following exposure to a leaking product. May cause stomach distress, nausea or vomiting.

Inhalation:
Not a normal route of exposure. May cause respiratory tract irritation if vapors are released due to heat or an abundance of leaking products.

Chronic Effects: If the product is leaking or ruptured, prolonged or repeated contact may dry skin and cause irritation.

Signs and Symptoms: If the product is leaking or ruptured, symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. Symptoms may include redness and drying of the skin.

Medical Conditions Aggravated By Exposure: None.

Target Organs: None.

Potential Environmental Effects: No ecological consideration when used according to directions. Normal dilution of this product to drains, sewers, septic systems and treatment plants is not considered environmentally harmful. See Section 12 for more information.
Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>Wt. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylene, low-high density</td>
<td>9002-88-4</td>
<td>30 - 60</td>
</tr>
<tr>
<td>Butyl benzoate</td>
<td>136-60-7</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Bis[2,3,5-trichloro-6-[(pentyloxy)carbonyl]phenyl] oxalate</td>
<td>75203-51-9</td>
<td>1 - 5</td>
</tr>
<tr>
<td>9,10-Bis(phenylvinyl)anthracene</td>
<td>10075-85-1</td>
<td>&lt; 0.1</td>
</tr>
<tr>
<td>Dimethyl phthalate</td>
<td>131-11-3</td>
<td>15 - 40</td>
</tr>
<tr>
<td>Hydrogen peroxide</td>
<td>7722-84-1</td>
<td>0.5 - 1.5</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

Section 4: FIRST AID MEASURES

**Eye Contact:** If the product is leaking or ruptured, contents may irritate eyes. Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation develops or persists.

**Skin Contact:** If the product is leaking or ruptured, contents may irritate skin. If irritation occurs, flush skin with plenty of water. Call a physician if irritation persists.

**Inhalation:** Not a normal route of exposure. If the product is leaking or ruptured, contents may irritate mouth. Rinse mouth and surrounding area with clear, tepid water for at least 15 minutes. If symptoms develop, remove to fresh air. Get medical attention if condition worsens.

**Ingestion:** Not a normal route of exposure. If the product is leaking or ruptured, contents may be irritating to respiratory tract. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical assistance if symptoms develop or persist.

**General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

**Note to Physicians:** Symptoms may not appear immediately.

Section 5: FIRE FIGHTING MEASURES

**Flammability:** Not flammable by OSHA criteria.

**Means of Extinction:**
- **Suitable Extinguishing Media:** Powder, water spray, foam, carbon dioxide.
- **Unsuitable Extinguishing Media:** Not available.

**Products of Combustion:** None.

**Explosion Data:**
- **Sensitivity to Mechanical Impact:** Not available.
- **Sensitivity to Static Discharge:** Not available.

**Protection of Firefighters:** Wear appropriate protective equipment including self contained breathing apparatus.

Section 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental Precautions:** Keep out of drains, sewers, ditches, and waterways.
Methods for Containment: If the product is leaking or ruptured, contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Clean-Up: In the event of rupture, prevent skin and eyes contact. Scoop up material and place in a disposal container. Provide ventilation.

Other Information: Not available.

Section 7: HANDLING AND STORAGE

Handling:
If the product is leaking or ruptured, avoid skin and eyes contact with the leaking contents. Do not crush, puncture or incinerate the product. Do not swallow. Handle with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

Storage:
Keep out of the reach of children. Keep the container tightly closed to prevent contact from moisture. Store this product in a cool, dry, well-ventilated place.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Exposure Limits

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>OSHA-PEL</th>
<th>ACGIH-TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylene, low-high density</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Butyl benzoate</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Bis[2,3,5-trichloro-6-[(pentyloxy)carbonyl]phenyl] oxalate</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>9,10-Bis(phenylvinyl)anthracene</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Dimethyl phthalate</td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Hydrogen peroxide</td>
<td>1.4 mg/m³</td>
<td>1.4 mg/m³</td>
</tr>
<tr>
<td>Water</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Engineering Controls: Ventilation is not normally required. If the product is leaking or ruptured, use general ventilation or use local exhaust, where possible, in confined or enclosed spaces.

Personal Protective Equipment:

Eye/Face Protection: Not normally required.
Hand Protection: Not normally required. If the product is leaking or ruptured, wear appropriate protective gloves to prevent skin exposure.
Skin and Body Protection: Not normally required. If the product is leaking or ruptured, wear suitable protective clothing.
Respiratory Protection: Not normally required.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear.
Color: Various colors.
Odour: Odourless.
Odour Threshold: Not available.
Physical State: Solid.
Section 9: PHYSICAL AND CHEMICAL PROPERTIES

- pH: Not available.
- Viscosity: Not available.
- Freezing Point: Not available.
- Boiling Point: Not available.
- Flash Point: Not available.
- Evaporation Rate: Not available.
- Lower Flammability Limit: Not available.
- Upper Flammability Limit: Not available.
- Vapor Pressure: Not available.
- Vapor Density: Not available.
- Specific Gravity: Not available.
- Solubility in Water: Not available.
- Coefficient of Water/Oil Distribution: Not available.
- Auto-ignition Temperature: Not available.
- Percent Volatile, wt. %: Not available.
- VOC content, wt. %: Not available.

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions.


Incompatible Materials: None known.

Hazardous Decomposition Products: None.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LD50 (oral)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylene, low-high density</td>
<td>&gt; 3000 mg/kg, rat</td>
<td>Not available.</td>
</tr>
<tr>
<td>Butyl benzoate</td>
<td>735 mg/kg, rat</td>
<td>Not available.</td>
</tr>
<tr>
<td>Bis[2,3,5-trichloro-6-[(pentyloxy)carbonyl]phenyl oxalate</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>9,10-Bis(phenylvinyl)anthracene</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Dimethyl phthalate</td>
<td>6800 mg/kg, rat</td>
<td>1213 mg/m³ 4hrs, rat</td>
</tr>
<tr>
<td>Hydrogen peroxide</td>
<td>376 mg/kg, rat</td>
<td>2000 mg/m³ 4hrs, rat</td>
</tr>
<tr>
<td>Water</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Eye: Not applicable under normal conditions of use. May cause eye irritation following exposure to a leaking product. If the product is leaking or ruptured, symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Skin: Not applicable under normal conditions of use. May cause skin irritation following exposure to a leaking product. If the product is leaking or ruptured, symptoms may include redness and drying of the skin.

Ingestion: Not applicable under normal conditions of use. May be harmful if swallowed. May cause irritation to the internal/external mouth area following exposure to a leaking product. May cause stomach distress, nausea or vomiting.

Inhalation: Not a normal route of exposure. May cause respiratory tract irritation if vapors are released due to heat or an abundance of leaking products.

EFFECTS OF CHRONIC EXPOSURE

Target Organs: None.

Chronic Effects: Not hazardous by OSHA criteria.

Carcinogenicity: Not hazardous by OSHA criteria.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Chemical Listed as Carcinogen or Potential Carcinogen *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylene, low-high density</td>
<td>Not listed.</td>
</tr>
<tr>
<td>Butyl benzoate</td>
<td>Not listed.</td>
</tr>
<tr>
<td>Bis[2,3,5-trichloro-6-[(pentyloxy)carbonyl]phenyl] oxalate</td>
<td>Not listed.</td>
</tr>
<tr>
<td>9,10-Bis(phenylvinyl)anthracene</td>
<td>Not listed.</td>
</tr>
<tr>
<td>Dimethyl phthalate</td>
<td>Not listed.</td>
</tr>
<tr>
<td>Hydrogen peroxide</td>
<td>Not listed.</td>
</tr>
<tr>
<td>Water</td>
<td>Not listed.</td>
</tr>
</tbody>
</table>

* See Section 15 for more information.

Mutagenicity: Not hazardous by OSHA criteria.

Reproductive Effects: Not hazardous by OSHA criteria.

Developmental Effects:
- Teratogenicity: Not hazardous by OSHA criteria.
- Embryotoxicity: Not hazardous by OSHA criteria.

Respiratory Sensitization: Not hazardous by OSHA criteria.

Skin Sensitization: Not hazardous by OSHA criteria.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: No ecological consideration when used according to directions. Normal dilution of this product to drains, sewers, septic systems and treatment plants is not considered environmentally harmful.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:
This material must be disposed of in accordance with all local, state, provincial, and federal regulations.
Section 14: TRANSPORTATION INFORMATION

DOT Classification
Not regulated

Section 15: REGULATORY INFORMATION

Federal Regulations

SARA Title III

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Section 302 (EHS) TPQ (lbs.)</th>
<th>Section 304 EHS RQ (lbs.)</th>
<th>CERCLA RQ (lbs.)</th>
<th>Section 313</th>
</tr>
</thead>
<tbody>
<tr>
<td>9,10-Bis(phenylvinyl)anthracene</td>
<td>Not listed.</td>
<td>Not listed.</td>
<td>Not listed.</td>
<td>Not listed.</td>
</tr>
<tr>
<td>Hydrogen peroxide</td>
<td>1,000</td>
<td>1,000</td>
<td>Not listed.</td>
<td>Not listed.</td>
</tr>
</tbody>
</table>

State Regulations
California Proposition 65:
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Global Inventories

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>USA TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylene, low-high density</td>
<td>Yes.</td>
</tr>
<tr>
<td>Butyl benzoate</td>
<td>Yes.</td>
</tr>
<tr>
<td>Bis[2,3,5-trichloro-6-[(pentyloxy)carbonyl]phenyl] oxalate</td>
<td>No.</td>
</tr>
<tr>
<td>9,10-Bis(phenylvinyl)anthracene</td>
<td>Yes.</td>
</tr>
<tr>
<td>Dimethyl phthalate</td>
<td>Yes.</td>
</tr>
<tr>
<td>Hydrogen peroxide</td>
<td>Yes.</td>
</tr>
<tr>
<td>Water</td>
<td>Yes.</td>
</tr>
</tbody>
</table>

NFPA - National Fire Protection Association:
Health - 0   Fire - 0   Reactivity - 0
Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.
ACGIH (G) American Conference of Governmental Industrial Hygienists.
A1 - Confirmed human carcinogen.
A2 - Suspected human carcinogen.
A3 - Animal carcinogen.
A4 - Not classifiable as a human carcinogen.
A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.
1 - The agent (mixture) is carcinogenic to humans.
2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in
humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N)
National Toxicology Program.
1 - Known to be carcinogens.
2 - Reasonably anticipated to be carcinogens.

Section 16: OTHER INFORMATION

Disclaimer:
The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to satisfy oneself as to the suitability and completeness of this information for the user’s own particular use.

Expiry Date: March 10, 2013

Version #: 1.0

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