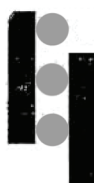


Light Sticks  
Red, Green, or Blue



5 Francis J. Clarke Circle, Bethel, CT 06801 USA  
phone (203) 229-0730, fax (203) 229-0740

Educational  
Innovations

**MATERIAL SAFETY DATA**

**MSDS No. 5797-02**

**Date: 7/31/00**

**Supersedes: 5/2/97**

**PRODUCT IDENTIFICATION**

**PRODUCT NAME:** "ACTIVATED" Chemiluminescent Product  
(Reverse Oxalate Component) All Colors

**SYNONYMS:** All products EXCEPT Flex-Stick® Lightsticks, 15" Lightstick, Speculite® Lightstick, Mini Lightsticks type B & E, Pop-To-Lite™ Cubes type B and E, Slide Light

**CHEMICAL FAMILY:** Plastic article containing chemiluminescer and activator components.

**MOLECULAR FORMULA:** Mixture

**MOLECULAR WEIGHT.:** Mixture

**COMPOSITION**

Component	C.A.S. #	Weight %
Polyethylene	9002-88-4	35-56%
Glass	-----	12-13%
Chemiluminescer	-----	24-30%
Activator	-----	19-24%

**OSHA REGULATED COMPONENTS**

COMPONENT	C.A.S. #	Weight%	TWA/CEILING	REFERENCE
tert-Butyl alcohol	75-65-0	2-3%	100 ppm 150 ppm STEL	OSHA/ACGIH
Dimethyl phtbalate	131-11-3	15-20%	5 mg/m <sup>3</sup>	OSHA/ACGIH
Hydrogen peroxide 70%	7722-84-1	0.5-0.7%	1.4 mg/m <sup>3</sup>	OSHA/ACGIH

**NFPA HAZARD RATING**

**1 FIRE:** Material that must be preheated before ignition can occur.

**0 HEALTH:** Materials that on exposure under fire conditions would offer no hazard beyond that of ordinary combustible material.

**0 REACTIVITY:** Materials that in themselves are normally stable, even under fire exposure conditions, and which are not reactive with water.

**HEALTH HAZARD INFORMATION**

**EFFECTS OF OVEREXPOSURE:** Overexposure to chemical ingredients is not likely to cause significant acute toxic effects. The acute oral (rat) and acute dermal (rabbit) LD50 values are greater than 5 g/kg for the luminescer, activator, fresh mixture, and spent mixture. Upon accidental eye exposure, material should be immediately rinsed from the eyes. No significant skin irritation was observed during animal testing.

**FIRST AID**

In case of eye contact, immediately irrigate with plenty of water for 15 minutes. Obtain medical attention if irritation persists.

**EXPOSURE  
CONTROL METHODS**

Engineering controls are not usually necessary if good hygiene practices are followed. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water. Avoid unnecessary skin contact. Impervious gloves are recommended to prevent prolonged skin contact. For operations where eye or face contact can occur, eye protection is recommended. Where exposures are below the Permissible Exposure Limit (PEL), no respiratory protection is required. Where exposures exceed the PEL, use respirator approved by NIOSH for the material and level of exposure. See "GUIDE TO INDUSTRIAL RESPIRATORY PROTECTION" (NIOSH).

**FIRE AND  
EXPLOSION  
HAZARD  
INFORMATION**

FLASH POINT: >200°F (93.3°C)  
METHOD: Closed Cup

FIRE FIGHTING: Use water spray, carbon dioxide or dry chemical to extinguish fires. Use water to keep containers cool. Wear self-contained positive pressure breathing apparatus.

**REACTIVITY  
DATA**

STABILITY: Stable  
CONDITIONS TO AVOID: None known

POLYMERIZATION:  
CONDITION TO AVOID: Will Not Occur  
None known

INCOMPATIBLE  
MATERIALS: None known

HAZARDOUS  
DECOMPOSITION  
PRODUCTS: Thermal decomposition or combustion may produce carbon monoxide and/or carbon dioxide

**PHYSICAL  
PROPERTIES**

APPEARANCE: Article consisting of plastic tube or shape containing broken glass ampoule after activation with oxalate component.

BOILING POINT: N.A.

MELTING POINT: 260 °C

VAPOR PRESSURE: N.A.

SPECIFIC GRAVITY: < Water

VAPOR DENSITY: N.A.

% VOLATILE (BY VOL.): N.A.

pH: N.A.

SATURATION IN AIR  
(BY VOL.): N.A.

EVAPORATION RATE: N.A.

SOLUBILITY IN WATER: Negligible

<b>SPILL OR LEAK PROCEDURES</b>	<b>STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:</b>	Cover spills with inert absorbent material; sweep up and place in waste disposal container.
<b>WASTE DISPOSAL</b>	Disposal must be made in accordance with applicable governmental regulations.	
<b>SPECIAL PRECAUTIONS</b>	<b>HANDLING AND STORAGE/OTHER:</b>	NONE
<b>D.O.T. SHIPPING INFORMATION</b>	<b>PROPER SHIPPING NAME:</b>	NOT APPLICABLE
	<b>HAZARD CLASS:</b>	NOT APPLICABLE
	<b>UN/NA:</b>	NOT APPLICABLE
	<b>D.O.T. HAZARDOUS SUBSTANCES:</b>	(Reportable quantity of product) Dimethyl Phthalate (5000 lbs)
<b>TSCA INFORMATION</b>	<b>D.O.T. LABEL REQUIRED:</b> NOT APPLICABLE	
<b>ENVIRONMENTAL INFORMATION</b>	This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C.	
	<p>Wastes that are classified as hazardous waste are potentially subject to the RCRA Land Disposal Restrictions. The Land Disposal Restriction regulations are contained in 40 CFR 268. Only waste which meet the regulatory definition of a hazardous waste are subject to the land disposal restrictions.</p> <p>Activated light sticks do not meet the definition of a Characteristic Hazardous Waste and therefore, under the regulations, can be disposed of as a solid waste in solid waste landfills and incinerators unless prohibited by site-specific solid waste facility restriction.</p>	

This information is given without any warranty or representation. We do not assume any legal responsibility for same, nor do we give permission, inducement, or recommendation to practice any patented invention without a license. It is offered solely for your consideration, investigation and verification. Before using any product, read its label.

---

**MEDICAL EMERGENCY PHONE** **800-228-5635 Ext. 162**

---