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**MATERIAL SAFETY DATA****MSDS No. 5797-02****Date 07/23/03****Supersedes: 7/31/00**

**PRODUCT IDENTIFICATION**  
 Colors

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

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

CHEMICAL FAMILY: Plastic article containing chemiluminescer and activator components.

MOLECULAR FORMULA: Mixture

MOLECULAR WEIGHT.: Mixture

**COMPOSITION**

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

**OSHA REGULATED COMPONENTS**

<u>COMPONENT</u>	<u>C.A.S. #</u>	<u>Weight%</u>	<u>TWA/CEILING</u>	<u>REFERENCE</u>
tert-Butyl alcohol	75-65-0	2-3%	100 ppm	OSHA/ACGIH
			150 ppm STEL	
Dimethyl phthalate	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**  
 significant (rabbit) LD50  
 fresh material

**EFFECTS OF****OVEREXPOSURE:**

Overexposure to chemical ingredients is not likely to cause

acute toxic effects. The acute oral (rat) and acute dermal values are greater than 5 g/kg for the luminescer, activator, mixture, and spent mixture. Upon accidental eye exposure, 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.

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**EXPOSURE  
CONTROL METHODS**

Impervious  
operations  
Where  
respiratory  
respirator  
TO

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. gloves are recommended to prevent prolonged skin contact. For where eye or face contact can occur, eye protection is recommended. exposures are below the Permissible Exposure Limit (PEL), no protection is required. Where exposures exceed the PEL, use approved by NIOSH for the material and level of exposure. See "GUIDE 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.

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**REACTIVITY  
DATA**

STABILITY: Stable  
CONDITIONS TO AVOID: None known

POLYMERIZATION: Will Not Occur  
CONDITION TO AVOID: None known

INCOMPATIBLE  
MATERIALS: None known

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition or combustion produce carbon dioxide

may  
monoxide and/or carbon

**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

**SPILL OR LEAK  
PROCEDURES**

STEPS TO BE TAKEN IN  
 CASE MATERIAL IS  
 RELEASED OR SPILLED:

Cover spills with inert absorbent material;  
 sweep up and place in waste disposal container.

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**WASTE DISPOSAL**

Disposal must be made in accordance with applicable governmental regulations.

**SPECIAL  
PRECAUTIONS**

HANDLING AND  
 STORAGE/OTHER:

NONE

**D.O.T. SHIPPING  
INFORMATION**

PROPER SHIPPING  
 NAME:

NOT APPLICABLE

HAZARD CLASS:

NOT APPLICABLE

UN/NA:

NOT APPLICABLE

D.O.T. HAZARDOUS  
 SUBSTANCES:

(Reportable quantity of product)  
 Dimethyl Phthalate (5000 lbs)

D.O.T. LABEL REQUIRED:

NOT APPLICABLE

**TSCA INFORMATION**

This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C.

**ENVIRONMENTAL  
INFORMATION**

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.

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.

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**