



MSDS1030

DEC 14 1990

MATERIAL SAFETY DATAMSDS NO. 5313-01
DATE: 06/15/88**PRODUCT IDENTIFICATION**

PRODUCT NAME: CYALUME® and LITE-UP® Lightsticks; LUNKER LIGHTS® Fishing Lightsticks; LITE-ROPE® Necklaces and Bracelet/Swizzles; GLOW STICK® Novelty Products; LIGHTSHAPE+® Glowing Novelties; PML® Personnel Marker Light; MAGIC IN THE NIGHT+® Novelty Products

CHEMICAL FAMILY: Plastic article containing luminescer and activator components

MOLECULAR FORMULA: Mixture

MOLECULAR WGT.: Mixture

WARNING**NO WARNING STATEMENT****REGULATED COMPONENTS**

COMPONENT	CAS. NO.	%	TWA/CEILING	REFERENCE
Dibutyl phthalate	000084-74-2	45-92	5 mg/M3	OSHA/ACGIH
Butanol, t-	000075-65-0	1-6.5	100 ppm	OSHA/ACGIH
Hydrogen peroxide	007722-84-1	0.3-2.2	1 ppm	OSHA/ACGIH
Dimethyl phthalate	000131-11-3	0-40	5 mg/M3	OSHA/ACGIH

NFPA HAZARD RATING

Fire 1
Health 0 0 Reactivity
Special

FIRE: Material that must be preheated before ignition can occur.
HEALTH: Materials which on exposure under fire conditions would offer no hazard beyond that of ordinary combustible material.
REACTIVITY: Materials which 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 this material is not likely to cause significant acute toxic effects. The acute oral (rat) and acute dermal (rabbit) LD50 values are greater than 5.0 g/kg for the luminescer, activator, fresh mixture, and spent mixture. Upon accidental eye exposure, material should be immediately rinsed from the eye as glass chips may cause physical damage. 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.

EMERGENCY PHONE: 201/835-3100

AMERICAN CYANAMID COMPANY, 1 CYANAMID PLAZA, WAYNE, NEW JERSEY 07470

**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. 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: METHOD:	> 200 F (> 93.3 C) Closed Cup
FLAMMABLE LIMITS (% BY VOL):	Not Available
AUTOIGNITION TEMP:	Not Available
DECOMPOSITION TEMP:	Not Available
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:	Will Not Occur
CONDITIONS TO AVOID:	None known
INCOMPATIBLE MATERIALS:	None known
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition or combustion may produce carbon monoxide and/or carbon dioxide.

**PHYSICAL
PROPERTIES**

APPEARANCE AND ODOR:	Article consisting of plastic tube or shape containing glass ampoule with luminescer and activator components
BOILING POINT:	Not Available
MELTING POINT:	Not Available
VAPOR PRESSURE:	Not Available
SPECIFIC GRAVITY:	1.05
VAPOR DENSITY:	Not Available
VOLATILE (BY VOL):	Not Available
OCTANOL/H ₂ O PARTITION COEF.:	Not Available
pH:	Not Applicable
SATURATION IN AIR (BY VOL):	Not Available
EVAPORATION RATE:	Not Available
SOLUBILITY IN WATER:	Immiscible

SPILL OR LEAK PROCEDURES	STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:	Cover spills with some inert absorbent; sweep up and place in a waste disposal container. Flush area with water.
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/NOT REGULATED
	HAZARD CLASS:	NOT APPLICABLE
	UN/NA:	NOT APPLICABLE
	D.O.T. HAZARDOUS SUBSTANCES:	(Reportable Quantity of Product) NOT APPLICABLE
	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.	

Marvin A. Friedman

Marvin A. Friedman, Ph.D., Director of Toxicology and Product Safety

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.