

# ITEM: 5HM93 - Lightstick Yellow

PICK REQ: 1036533030

MATERIAL SAFETY DATA SHEET (MSDS)

MSDS: A6917

**This MSDS should be attached or kept with the respective product with which it is associated.**

MATERIAL SAFETY DATA SHEET - A6917

Related Grainger Item: 5HM93 - Lightstick Yellow

OMNIGLOW

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MATERIAL SAFETY DATA

MSDS NO.: 5693-01

DATE: 7/31/03

SUPERCEDES: 7/31/00

----- PRODUCT IDENTIFICATION -----

PRODUCT NAME:  
"ACTIVATED" CHEMILUMINESCENT PRODUCT (CONVENTIONAL OXALATE COMPONENT) ALL COLORS

SYNONYMS:  
FLEX-STICK(R\*) LIGHTSTICKS, 15" LIGHTSTICK, SPECULITE(R\*) LIGHTSTICK, MINI LIGHTSTICKS TYPE B & E, POP-TO-LITE(TM) 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	0-10%	
CHEMILUMINESCER	27-50%	
ACTIVATOR	7-11%	

REGULATED COMPONENTS:

COMPONENT	CAS. NO.	WEIGHT %	TWA/CEILING	REFERENCE
TERT-BUTYL ALCOHOL	75-65-0	0.8-1.3%	100 PPM 150 PPM	OSHA/ACGIH STEL
DIBUTYL PHTHALATE	84-74-2	23.0-47.0%	5 MG/M3	OSHA/ACGIH
DIMETHYL PHTHALATE	131-11-3	5.0-8.0%	5 MG/M3	OSHA/ACGIH
HYDROGEN PEROXIDE 70%	7722-84-1	0.2-0.3%	1.4 MG/M3	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 CHEMILUMINESCER, 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 DEG. F (93.3 DEG. C)  
METHOD: CLOSED CUP

FIRE FIGHTING:  
USE WATER SPRAY, CARBON DIOXIDE OR DRY CHEMICAL TO EXTINGUISH FIRES. USE

----- 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 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 COMPONENTS.

BOILING POINT: N.A.

MELTING POINT: 260 DEG. C

VAPOR PRESSURE: N.A.

SPECIFIC GRAVITY: < WATER

VAPOR DENSITY: HEAVIER THAN AIR

% 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. 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

HAZARD CLASS: NOT APPLICABLE

UN/NA: NOT APPLICABLE

D.O.T. HAZARDOUS SUBSTANCES:  
(REPORTABLE QUANTITY OF PRODUCT)  
DIBUTYL PHTHALATE (10 LBS)  
DIMETHYL PHTHALATE (5000 LBS)

D.O.T. LABEL REQUIRED: NOT APPLICABLE

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----- 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.

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MEDICAL EMERGENCY PHONE: 800-228-5635 EXT. 162

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