MATERIAL S	AFETY DAT	A		DATE:				
PRODUCT	PRODUCT NAM	E: LIG	HT STICK Acti	vator Component				
IDENTIFICATIO	SYNONYMS:	LUM	ICA LIGHT Act	ivator Component				
	CHEMICAL FA	MILY: Mix	ture					
	MOLECULAR FORMULA:		Mixture					
	MOLECULAR W	GT.: Mix	ture					
	WARNING FLAM	MMABLE LIQUID AND VA	APOR					
WARNING	HAR	MFUL IF INHALED						
	CAUS	SES EYE IRRITATION						
OSHA	COMPONENT	CAS.No.	%	TWA/CEILING	REFERENCE			
REGULATED	Butanol,t-	000075-65-0	12-15	100ppm	OSHA/ACGIH			
COMPONENTS	Dimetyl pht	halat 000131-11-3	80-83	5mg/M3	OSHA/ACGIH			
	Hydrogen pe	roxic 007722-84-1	4-5	1ppm	OSHA/ACGIH			
NFPA HAZARD			FIRE: Liqu	ids and solids that ignited				
RATING	Fire	5	under almo	st all ambient temperature (conditions.			
	3		HEALTH: Materials which on intense or continued exposure					
	Health 2 0 Reactivity		could cause temporary incapacitation or possible					
	-		residual injury unless prompt medical treatment is given.					
	Special		REACTIVITY: Materials which in themselves are normally					
				en under fire exposure cond	-			
				are not reactive water.	,			
				are not reactive water.				
HEALTH HAZA	EFFECTS OF	The acute oral	(rat) and ac	cute (dermal) rabbit LD50 va	alues are both greate:			
INFORMATION	OVEREXPOSUR	E: than 5g/kg and	greater than	n 10mL/kg, respectively.				
		Direct contact	with this ma	aterial can cause moderate e	eye irritation.			
		Acute overexpo dizziness as w to the mucos m greater than 3 The oral (rat) 6.9g/kg and 1	ology information on regulated components of this product is as for overexposure to t-butyl alchohol vapor may cause headache, fatigue ness as well as central nervous system depression. It also may be e mucos membranes. The rat oral LD50 is 3.5g/kg and the rabbit dep er than 3.4g/kg. ral (rat) and the dermal (rabbit) LD50 values for dimethyl phtahlat /kg and 10.0mL/kg respectively. Dimethyl phthalate did not produce nsitization. The acute toxicity of dimethyl phthalate by inhalation					

MSDS No.

_		Acute overexposure to hydrogen peroxide vapor can cause eye and respiratory tract irritation. The inhalation LC50 in rats after a 4 hour exposure is 2,000mg/m3. Hydrogen peroxide solution can cause severe irritation to the eyes and skin. The oral LD50 of a 75% solution of hydrogen peroxide in rats is 75mg/kg. The dermal LD50 of a 90% solution is 700mg/kg.
I	FIRST AID:	In case of eye contact, immediately irrigate with plenty of water for 15 minutes. Obtain medical attention if irritation persists.
EXPOSURE		Where this materials is not used in a closed system, good enclosure
CONTROL METH	IODS	and local exhaust ventilation should be provided to control
		exposure. Food, beverages, and tobacco products should not be
		carried, stored, or consumed where this material is in use. Before
		eating, drinking, or smoking, wash face and hands woth soap and
		water. Avoid skin contact. Protective clothing such as impervious
		gloves, apron, workpants, long sleeve work shirt, or disposable
		coveralls are recommended to prevent skin contact. For operations
		where eye or face contact can occur, wear eye protection such as
		chemical splash proof goggles or face shield. Eyewash equipment and
		safety shower should be provided in areas of potential exposure. Where exposure are below the Permissible Exposure Limit (PEL), no respiratory protection is required. Where exposure exceed the PEL, use respirator approved by NIOSH for the material and level of exposure. See "GUIDE TO INDUSTRIAL RESPIRATORY PROTECTION" (NIOSH).

FIRE AND	FLASH POINT:	83F(28C)					
EXPLOSION	METHOD:	Setaflash Closed Cup					
HAZARD	FLAMMABLE LIMITS						
INFORMATION	(%BY VOL):	2.4 Lower; 8.0 Upper (values for t-butyl alcohol)					
	AUTOIGNITION TEMP:	>900F(>482C)(values for t-butyl alcohol) >167F(>75C)					
	DECOMPOSITION TEMP:						
	FIRE FIGHTING: Use water spray, alcohol foam, carbon dioxide or dr extinguish fires. Water stream may be ineffective. keep containers cool. Water self-contained positive breathing apparatus and full firefighting protective See Exposure Control Methods for special protective						
REACTIVITY D/ STABILITY:		Stable					
	CONDITIONS TO AVOID:	None known					
	POLYMERIZATION: CONDITIONS TO AVOID:	Will Not Occur None known					
	INCOMPATIBLE MATERIALS:	Strong oxidizing agents and reducing agents.					
	HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition or combustion may produce carbon monoxide and/or carbon dioxide.					

PHYSICAL	APPEARANCE AND	Water-white; aromatic					
PROPERTIES	ODER:						
	BOILING POINT:	Alcohol fraction boils @~181F;83°C					
		Dimethyl phthalate fraction boils @~540F;282℃					
	MELTING POINT:	Not Available					
	VAPOR RPESSURE:	Not Available					
	SPECIFIC GRAVITY:	1.05					
	VAPOR DENSITY:	2.55 (air = 1)(value for t-buthyl alcohol)					
	%VOLATILE(BY VOL):	23%					
	OCTANOL/H2O						
	PARTITION COEF:	Not Available					
	pH:	Neutral					
	SATURATION IN AIR	N. (A. 11.11.					
	(BY VOL):	Not Available					
	EVAPORATION RATE: SOLUBILITY IN WATER:	Not Available Partial					
	SOLUBILITI IN WATER.	Tattia					
SPILL OR LEAK	STEPS TO BE TAKEN IN	Where exposure levels is not known, wear NIOSH approved, positive					
PROCEDURES	CASE MATERIALS	pressure, self contained respirator. Where exposure level is known,					
	RELEASED OR SPILLED:	wear NIOSH approved respirator suitable for level of exposure. In addition to the protective clothing/equipment in Exposure Control Methods, wear impervious boots. Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush area with water. Remove sources of ignition.					
WASTE DISPOS	SDisposal must be made in regulations.	n accordance with applicable governmental					
SPECIAL	HANDLING AND	Areas containing this material should have fire-safe practices and					
PRECAUTIONS	STORAGE/OTHER:	electrical equipment in accordance with Electrical and Fire Protec					
TRECKOTIONS	STORAGE/OTHER.						
		codes (NFPA-30) governing Class I Flammable Liquids.					
D.O.T.SHIPPIN	CPROPER SHIPPING	FLAMMABLE LIQUID, N.O.S.					
INFORMATION	NAME:						
	HAZARD CLASS:	FLAMMABLE LIQUID					
	UN/NA:	UN1993					
	D.O.T.HAZARDOUS	(Reportable Quantity of product)					
	SUBSTANCES :	DIMETHYL PHTHALATE (10.1 lbs-99%)					
	D.O.T.LABEL REQUIRED:	Flammable Liquid					
τςςα		tured in compliance with all provisions of the					

TSCA

This porduct is manufactured in compliance with all provisions of the

INFORMATION Toxic Substances Control Act,15 U.S.C.

ENVIRONMENT The following components are defined as toxic chemicals subject to reporting requirements of

INFORMATION Section 313 of Title 111 and of 40 CFR 372 or other EPA regulations.

			SARA T	ITLE 111				
COMPONENT	CAS.NO.		TPQ(lbs.)	RQ(lbs.)	S:	RCRA	TCSA 12B	
Butanol,t-	0000-75-65-0	1	NONE	NONE	YI	NONE	NO	
Dimethyl phthalate	000131-11-3	8	NONE	5,000	YI	U088	YES	

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA ACUTE (Y) CHRONIC (N) FIRE (Y) REACTIVE (N) PRESSURE (N)