

**Section 1 - Chemical Product and Company  
Identification**

**Product Name:** EMERGENCY LIGHTSTICK (RED,ORANGE,GREEN,BLUE)

**Product Size:** 10 x 580mm, 10 x 300mm 10 x 150mm

**Supplier Information**

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**SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**

This is preparation

**Component Information:**

CAS #	Component	EINECS/ELICS	Percent (wt)	EU Classification
77-90-7	1,2,3-PROPANETRICARBOXYLIC ACID, 2-(ACETYLOXY)-, TRIBUTYL ESTER	201-067-0	90 - 95	---
75-65-0	TERT-BUTYL ALCOHOL	200-889-7	1 - 5	F, R11; Xn, R20
7722-84-1	HYDROGEN PEROXIDE	231-765-0	0.5 - 1	R5; O, R8; C, R35 Xn, R20/22

**SECTION 3 - HAZARDS IDENTIFICATION**

**Physical/Chemical Hazards**

This product is not classified as dangerous according to Directive 1999/45/EC as amended and adapted.

**Human health hazards**

**Eyes:** Irritation may occur following exposure to a leaking product.

**Skin:** Irritation may occur following exposure to a leaking product, and may be harmful if absorbed through the skin.

**Ingestion:** Not anticipated. May cause irritation to the internal/external mouth area following exposure to a leaking product.

**Inhalation:** Not anticipated. Respiratory irritation may occur if vapors are released due to heat or an abundance of leaking products.

**SECTION 4 - FIRST AID MEASURES**

**Eyes:** If the product is leaking or ruptured, contents may irritate eyes. Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation develops or persists.

**Skin:** If the product is leaking or ruptured, contents may irritate skin. Rinse exposed area with large amounts of water for at least 15 minutes. Get medical attention if irritation develops or persists.

**Ingestion:** If the product is leaking or ruptured, contents may irritate mouth. Rinse mouth and surrounding area with clear, tepid water for at least 15 minutes. Get medical assistance if irritation develops or persists.

**Inhalation:** If the product is leaking or ruptured, contents may be irritating to respiratory tract. Remove to fresh air. Get medical assistance if symptoms develop or persist.

**SECTION 5 - FIRE FIGHTING MEASURES**

<b>Flash Point:</b>	Not combustible	<b>Method Used:</b>	NA
<b>Upper Flammable Limit (UFL):</b>	NA	<b>Lower Flammable Limit (LFL):</b>	NA

**General Fire Hazards**

This product is not combustible.

**Hazardous Combustion Products**

Carbon monoxide, carbon dioxide.

**Extinguishing Media**

Water spray, dry chemical, or carbon dioxide, as appropriate.

**Fire Fighting Equipment/Instructions**

Wear appropriate protective equipment including self contained breathing apparatus.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**Containment Procedures**

None

**Clean-Up Procedures**

In the event of rupture, prevent skin and eyes contact. Absorb with inert absorbent such as dry clay, sand, diatomaceous earth, or commercial sorbents. Scoop up used absorbent into drums or other appropriate container. Dispose of spent absorbent in an approved industrial waste landfill.

**Evacuation Procedures**

None

## Special Procedures

None

## SECTION 7 - HANDLING AND STORAGE

### Handling Procedures

If the product is leaking or ruptured, avoid skin and eyes contact with the leaking contents.

Do not crush, puncture or incinerate the product.

### Storage Procedures

Keep the container tightly closed to prevent contact from moisture.

Store this product in a cool, dry, well-ventilated place.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Occupational Exposure Limits

#### Tert-Butyl alcohol (75-65-0)

ACGIH: 100 ppm TWA

German DFG: 20 ppm MAK; 62 mg/m<sup>3</sup> MAK; 100 ppm Peak; 310 mg/m<sup>3</sup> Peak

United Kingdom: 100 ppm TWA; 308 mg/m<sup>3</sup> TWA; 150 ppm STEL; 462 mg/m<sup>3</sup> STEL

Sweden: 50 ppm LLV; 150 mg/m<sup>3</sup> LLV; 75 ppm STV; 250 mg/m<sup>3</sup> STV

#### Hydrogen peroxide (7722-84-1)

ACGIH: 1 ppm TWA

German DFG: 1 ppm MAK; 1.4 mg/m<sup>3</sup> MAK; 1 ppm Peak; 1.4 mg/m<sup>3</sup> Peak

United Kingdom: 1 ppm TWA; 1.4 mg/m<sup>3</sup> TWA; 2 ppm STEL; 2.8 mg/m<sup>3</sup> STEL

Sweden: 1 ppm LLV; 1.4 mg/m<sup>3</sup> LLV; 2 ppm Ceiling; 3 mg/m<sup>3</sup> Ceiling

### Engineering Controls

Not normally required. If the product is leaking or ruptured, use general ventilation or use local exhaust, where possible, in confined or enclosed spaces.

### Personal Protective Equipment

**Eyes/Face:** Not normally required. If the product is leaking or ruptured, wear safety glasses with side shields, chemical goggles (if splashing is possible).

**Skin:** Not normally required. If the product is leaking or ruptured, wear appropriate protective gloves to prevent skin exposure.

**Respiratory:** Not normally required. If the product is leaking or ruptured, wear an organic vapor respirator for concentrations exceeding the

Occupational Exposure Limit.

**General:** Wash fountain is recommended. Good personal hygiene practices should always be followed.

**SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES**

<b>Physical State:</b>	Article consisting of plastic tube or shape containing broken glass ampule	<b>Color:</b>	NA
<b>Odor:</b>	Odorless	<b>pH:</b>	NA
<b>Vapor Density:</b>	NA	<b>Vapor Pressure:</b>	NA
<b>Boiling Point:</b>	NA	<b>Melting point:</b>	NA
<b>Solubility (H<sub>2</sub>O):</b>	Immiscible (contents)	<b>Freezing point:</b>	NA
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	1.05	<b>VOC content:</b>	None

**SECTION 10 - CHEMICAL STABILITY & REACTIVITY INFORMATION**

**Chemical Stability:** Stable under normal conditions.  
**Conditions to Avoid:** No available information  
**Hazardous Polymerization:** Will not occur.  
**Incompatibility:** No available information.  
**Hazardous Decomposition:** Carbon monoxide and carbon dioxide.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Acute Toxicity**

**Component Analysis - LD50/LC50**

**1,2,3-Propanetricarboxylic acid, 2-(acetyloxy)-, tributyl ester (77-90-7)**

Intraperitoneal LD50 Mouse: >4000 mg/kg

**Tert-Butyl alcohol (75-65-0)**

Oral LD50 Rat: 3500 mg/kg

**Hydrogen peroxide (7722-84-1)**

Oral LD50 Rat: 1518 mg/kg

**Carcinogenicity**

Component Carcinogenicity

*None of this product's components are classified as carcinogens by IARC,*

*German DFG or United Kingdom.*

**Sensitization:** No data available for this product.

**Mutagenicity:** No data available for this product.

**Teratogenicity:** No data available for this product.

**SECTION 12 - ECOLOGICAL INFORMATION**

**Component Analysis - Ecotoxicity - Aquatic Toxicity**

**Tert-Butyl alcohol (75-65-0)**

**Test & Species**

96 Hr LC50 fathead minnow 6410 mg/L

**Hydrogen peroxide (7722-84-1)**

**Test & Species**

48 Hr LC50 carp 42 mg/L

**Environmental Fate**

No available information.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**Waste Disposal Instructions**

Dispose of waste or unused material in accordance with local environmental regulations or local authority requirements.

**SECTION 14 - TRANSPORTATION INFORMATION**

**International Transportation Regulations**

**US DOT:** Not regulated as a hazardous material or dangerous goods for transportation.

**ICAO/IATA:** Not regulated as a hazardous material or dangerous goods for transportation.

**IMO/IMDG:** Not regulated as a hazardous material or dangerous goods for transportation.

**RID/ADR:** Not regulated as a hazardous material or dangerous goods for transportation.

**SECTION 15 - REGULATORY INFORMATION**

**European/International Regulations European Labeling in**

**Accordance with EC Directives Hazard Symbols**

None

**R/S Phrases**

None

**Additional International Regulatory Information**

**Component Analysis - Inventory**

Component	CAS #	TSCA	DSL	EINECS
1,2,3-Propanetricarboxylic acid, 2-(acetyloxy)-, tributyl ester	77-90-7	Yes	Yes	Yes
Tert-Butyl alcohol	75-65-0	Yes	Yes	Yes
Hydrogen peroxide	7722-84-1	Yes	Yes	Yes

**SECTION 16 - OTHER INFORMATION**

**Disclaimer**

Information presented herein has been compiled from information provided to us by our clients and other sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or the use of any product in violation of any patent or in violation of any law or regulation. It is the user's responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and, since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.

**Key/Legend**

NA = Not available or Not Applicable. ND = Not determined or No data. MAC = Maximum Allowable Concentration. TWA = Time Weighted Average. ACGIH = American Conference of Governmental Industrial Hygienists. IARC = International Agency for Research on Cancer. TSCA = Toxic Substance Control Act. DSL = Domestic Substances List (Canada). EINECS = European Inventory of Existing Commercial Substances; IECSC = Inventory of Existing Chemical Substances. EECS = Existing and Evaluated Chemical Substances

**Wording of R/S-phrases in item 2**

**F** Flammable  
**Xn** Harmful  
**O** Oxidizing  
**C** Corrosive  
**R5** Heating may cause an explosion.  
**R8** Contact with combustible material may cause fire.  
**R11** Highly flammable  
**R20/22** Harmful by inhalation and in contact with skin.  
**R35** Causes severe burns.

**Sources Used**

EU Directive 2001/58/EC  
EU Directive 2001/59/EC  
EU Directive 1999/45/EC  
EU Directive 67/548/EEC

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