



## **SAFETY DATA SHEET**

**EFFECTIVE DATE:** 2/9/2016

**ITEM:** Fire Free Alert/Locate Kit

**PART #**  
748

**UPC**  
077403107483

### **CONTENTS:**

Fluorescein Dye Marker  
Green Light Stick

### **SHIPPING INFORMATION**

not hazardous



## SAFETY DATA SHEET

### 1. Product and Company Identification

#### Fluorescein Dye Marker

Identified Use: Emergency distress signal

Use Advised Against: none

Manufacturers Information  
Orion Safety Products  
3157 North 500 West  
Peru, IN 46970  
US 1-800-851-5260  
Intl (11) 1-765-472-4375

EMERGENCY

CHEMTREC  
1-800-424-9300

### 2. Hazards Identification

#### GHS Classifications

Eye Damage / Irritation Category 1 H318  
STOT - Single Exposure Category 3 H335

#### GHS Label Elements

Pictograms



Hazard Statements

H318 Causes serious eye damage  
H335 May cause respiratory irritation

Signal Word **Danger**

#### Precautionary Statements

P103 Keep out of reach of children  
P370 In case of fire: use water deluge

P301/315 IF SWALLOWED: Get immediate medical advice /attention.  
P302/352 IF ON SKIN: Wash with plenty of soap and water.  
P304/340/342 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
P305/338/351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333/313 If skin irritation or rash occurs, get medical advice/attention.

Hazards Not Otherwise Classified (HNOC): none

### 3. Composition / Information on Ingredients

Component	CAS #	EINCS #	%age
Sodium Fluorescein	518-47-8	208-253-0	>50%
Sodium Bicarbonate	144-55-8	205-633-8	<50%
Adipic Acid	124-04-9	204-673-3	<20%

Note: Due to Confidential Business Information i.e. "Trade Secrets", the exact percentage of each ingredient has not been disclosed. CBI information will be shared with appropriate authorities if circumstances warrant.

### 4. First Aid Measures

#### Description of first aid measures

**Inhalation** If contents are inhaled, remove to fresh air. Watch for signs of allergic reaction. If other symptoms develop, get medical aid immediately.

**Skin** If contents are contacted, wash with area with soap and water for 15 minutes. Remove contaminated clothing and wash before reuse. Get medical aid if irritation occurs.

**Eyes** If contents get into eye, flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses if easily possible. Get medical aid immediately.

**Ingestion** Get medical aid immediately.

Most important symptoms and effects both acute and delayed

See section 2 labeling and section 11

Indication of any immediate medical attention and special treatment needed

No data available

### 5. Firefighting Measures

#### Extinguishing Media

Water deluge

#### Unsuitable Extinguishing Media

Foam and dry chemical extinguishers and suffocation are ineffective.

#### Protective Equipment and Precautions for Firefighters

Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

#### Specific Hazards Arising from the Chemical

Avoid dust / air suspensions. As with any organic powder, the contents may be capable of a dust explosion fire.

#### Further information

No data available

## 6. Accidental Release Measures

### Personal Precautions / Protective Equipment / Emergency Procedures

Do not breathe contents and avoid contact with skin and eyes. Dye will stain / color all exposed areas - wear Tyvek coveralls, goggles or face mask, dust mask / respirator and booties if available. If not, wear clothing with long sleeves, long pant legs, dust mask, rubber or nitrile gloves, safety goggles, and safety shoes when cleaning up contents.

### Environmental Precautions

Contents are highly soluble in water and the dust has a great ability to migrate.

### Methods for Containment and Clean-up

Place absorbent material onto floor before sweeping. Clean area in a manner so as to minimize dust. Wear gloves, safety glasses/goggles, and full-coverage clothing to minimize exposure and dye effects. For large spills, a dust mask is recommended. Pick up spill for recovery or disposal and place in lidded container. Wash area with soap and plenty of water. Material is completely gone when no additional green color is detected in wash water.

## 7. Handling and Storage

### Precautions for Safe Handling

Contents will stain – handle with caution. Wear appropriate eye protection when using. Follow instructions on package. Avoid ingestion and inhalation of contents. Wash thoroughly after handling. Do not disassemble signal.

### Conditions for Safe Storage, Including Any Incompatibilities

Store in a cool, dry place. Store away from food and beverages. Keep at temperature not exceeding: 60 °C ( 140 °F )

## 8. Exposure Controls / Personal Protection

### Control parameters

Exposure Limits	OSHA PEL	ACGIH TLV
Sodium Fluorescein	Not Established	Not Established
Sodium Bicarbonate	Not Established	Not Established
Adipic Acid	None established	5 mg/m3
<b>Exposure controls</b>		
Engineering Controls	When cleaning up contents, use local and/or general exhaust.	
Personal Protective Equipment		
Eye / Face Protection	Wear safety glasses or goggles when cleaning up spilled contents.	
Skin Protection	No significant health effects but contents will stain all exposed areas. Wear Tyvek coveralls, rubber or nitrile gloves, and booties if available. If not, wear clothing with long sleeves, long pant legs, rubber or nitrile gloves, and safety shoes when cleaning up contents. Wash hands and face before eating, drinking or using tobacco products.	
Respiratory Protection	None under normal conditions when using product. A particulate respirator (NIOSH t N95 or better filters) may be worn during the cleanup of spilled contents.	
General Hygiene	Educate and train employees in the safe use and handling of hazardous materials. Maintain good housekeeping and safety practices. Do not let contents accumulate in storage or work areas. Clean spills up promptly.	

## 9. Physical and Chemical Properties

Appearance (color, physical form, shape):	orange powder		
pH:	Not available	Melting Point:	Not available
Boiling Point / Range:	Not applicable	Freezing Point:	Not applicable
Vapor Pressure:	Not applicable	Specific Gravity	Not applicable
Odor:	No data available	Odor Threshold:	No data available
Flammability:	No data available	Flammability Limits:	No data available
Partition Coefficient:	No data available	Viscosity:	No data available
Auto Ignition Temperature:	No data available	Decomposition Temperature:	No data available
Solubility:	Not available	Evaporation Rate:	Not applicable
Vapor Density:	Not applicable	Flash Point:	Not available
Relative Density:	No data available		

## 10. Stability and Reactivity

Chemical Stability	Stable	Reactivity:	No information available	Possibility of Hazardous Reactions	Hazardous polymerization will not occur
Conditions to Avoid	Excessive temperatures, moisture, acids, and ignition sources.	Incompatible Materials	Oxidizing agents, acids	Hazardous Decomposition Products	Nitrogen oxides, carbon monoxide, carbon dioxide

## 11. Toxicology Information

### Ingredient acute toxicity information

Toxicology	Oral LD50	skin LD50	LC50
Sodium Fluorescein	Rat: 6,721 mg/kg	not available	not available
Sodium Bicarbonate	Rat: 4220 mg/kg	not available	not available
Adipic Acid	Rat: 5,560 mg/kg	Rabbit: 7,940 mg/kg	Rat: 4 h - > 7.7 mg/l

### Product toxicological information

Acute Toxicity	Not classified – Acute Toxicity Estimate yields oral LD <sub>50</sub> over 5000 mg/kg bw
Skin Irritation / Corrosion	No information found
Serious Eye Damage / Irritation	Category 1 – over 0.1% of ingredients classified as a Category 1
Respiratory / Skin Sensitization	No information found



Germ Cell Mutagen	No information found
Carcinogen	No information found
Reproductive Toxicity	No information found
STOT – single exposure	Category 3 – respiratory over 20% of ingredients classified as a Category 3 respiratory STOT hazard
STOT – repeated exposure	No information found
Aspiration Hazard	No information found
Likely routes of exposure	Skin, ingestion, inhalation
Symptoms related to the physical, chemical and toxicological characteristics	No information found
Delayed and immediate effects and chronic effects from short and long term exposure	No information found
Interactive effects	No information found

## 12. Ecological Information

**Ingredient toxicity / persistence / degradability / bioaccumulation / mobility in soil and water**

Aquatic Toxicity	<u>Sodium Fluorescein</u> – LC50 <i>Oncorhynchus mykiss</i> (rainbow trout) - 1,372 mg/l - 96 h; EC50 - <i>Daphnia pulex</i> (Water flea) - 337 mg/l - 48 h
	<u>Sodium Bicarbonate</u> – LC50 freshwater fish 8250 - 9000 mg/L 96 h ; EC50: freshwater algae 650 mg/L/120h; EC50: 2350 water flea mg/L/48h
Persistence / Degradability	<u>Adipic Acid</u> – LC50 - <i>Brachydanio rerio</i> (zebrafish) >= 1,000 mg/l - 96 h; LC50 - <i>Daphnia magna</i> (Water flea) - 46 mg/l - 48 h; EC50 - <i>Pseudokirchneriella subcapitata</i> (algae) - 59 mg/l - 72 h
	<u>Sodium Bicarbonate</u> - Soluble in water Persistence is unlikely based on information available
Bioaccumulation / Accumulation	<u>Adipic Acid</u> - Readily biodegradable
	No information found
Mobility in Environmental Media	<u>Sodium Bicarbonate</u> - Will likely be mobile in the environment due to its water solubility
Other adverse effects	No information found

## 13. Disposal Considerations (for spills and leakage)

Dispose of contaminated product, empty container and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures. This material is not considered to be a hazardous waste and no special disposal requirements are expected...

## 14. Transportation Information

Domestic & International	ID Number	shipping name	hazard class	packing group	EX Number	Reportable Quantities
	none	Non-hazardous	none	none	none	none
Marine Pollutant: no			Special precautions for user: No information available			

## 15. Regulatory Information

US Regulations	TSCA	CERCLA	CWA	CAA	SARA 313	SARA 302	Acute	Chronic	Fire	Reactivity	Pressure
Sodium Fluorescein	8(b)	no	no	no	no	no	no	yes	no	no	no
Sodium Bicarbonate	yes	no	no	no	no	no	yes	yes	no	no	no
Adipic Acid	yes	yes	yes	no	no	no	yes	no	no	no	no
US States	Prop 65	NJ	PA	Canada	WHMIS	DSL	Europe	wgk			
Sodium Fluorescein	no	yes	yes		D2B Toxic materials	yes		Not listed			
Sodium Bicarbonate	no	no	no		D2B Toxic materials	yes		1			
Adipic Acid	no	yes	yes		D2B Toxic materials	yes		1			

## 16. Other Information

Revision Information: June 2015

NFPA Rating		HMIS Rating	
Flammability	2	Flammability	2
Health	1	Health	1
Reactivity	0	Physical Hazard	0

### Key / Legend:

HMIS: hazardous material identification system  
 NFPA: national fire protection association  
 CAS: Chemical Abstracts Service number  
 EINECS: European inventory of existing chemical substances  
 OSHA PEL: occupational safety and health administration permissible exposure limit  
 NIOSH TLV: national institute of occupational safety and health Threshold Limit Value  
 NTP: National Toxicology Program  
 IARC: International Agency for Research on Cancer

TSCA: toxic substance control act - US  
 CERCLA: comprehensive environmental response, compensation and liability act - US  
 CWA: clean water act - US  
 CAA: clean air act - US  
 SARA: superfund amendments and reauthorization act - US  
 PROP 65: California's Proposition 65 list  
 WHMIS: workplace hazardous materials information system - Canada  
 DSL: Domestic Substances List - Canada  
 WGK: water hazard classes - Germany

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## Safety data sheet

### Regulation(EC) No. 1907/2006, 1272/2008

Printing date 21.05.2015

Revision: 07.05.2015

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
    - Trade name: Activator for glow stick
  - **1.2 Relevant identified uses of the substance or mixture and uses advised against**
    - Application of the substance / the mixture TOY, PARTY ITEMS, DECORATION
  - **1.3 Details of the supplier of the safety data sheet**
    - Manufacturer/Supplier:  
XIAMEN LONG AFTERGLOW CO.,LTD  
NO. 1043, TONG JI ZHONG ROAD, TONG AN DISTRICT, XIAMEN, CHINA  
Tel: 0592-3675699  
E-mail: yolanda@glo-novelty.com
    - Only Representative / other EU contact point Not available
    - Further information obtainable from: XIAMEN LONG AFTERGLOW CO.,LTD
  - **1.4 Emergency telephone number:**  
Yolanda Hu  
Tel: 0086-592-3675699
- UNITED KINGDOM**  
 National Poisons Information Service  
 Tel: +44 (0) 844 892 0111
- **1.5 Reference number:** SHTY150400006214-SH; SHATY1507843501

#### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  - Classification according to Regulation (EC) No 1272/2008  
The product is not classified according to the CLP regulation.
  - Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
  - Information concerning particular hazards for human and environment:  
The product does not have to be labelled due to the calculation procedure of Regulation (EC) No 1272/2008.
  - Classification system:  
The classification is according to the latest edition of the Directives 67/548/EEC, 1999/45/EC and Regulation (EC) No. 1272/2008, and extended by company and literature data.
- **2.2 Label elements**
  - Labelling according to Regulation (EC) No 1272/2008 Not applicable
  - Hazard pictograms Not applicable
  - Signal word Not applicable
  - Hazard-determining components of labelling: Not applicable
  - Hazard statements Not applicable
  - Precautionary statements Not applicable
- **2.3 Other hazards**
  - Results of PBT and vPvB assessment
  - PBT: Not applicable
  - vPvB: Not applicable

#### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
  - Description:  
Mixture of the substances listed below with nonhazardous additions.  
For the wording of the listed risk phrases refer to section 16.

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<b>Composition:</b>		
CAS: 131-11-3 EINECS: 205-011-6	dimethyl phthalate substance with a Community workplace exposure limit	89,5%
CAS: 7732-18-5 EINECS: 231-791-2	water	8,2%
CAS: 7722-84-1 EINECS: 231-765-0 Index number: 008-003-00-9	hydrogen peroxide C R35; Xn R20/22; O R8 R5 Ox. Liq. 1, H271; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H332	2,3%

### SECTION 4: First aid measures

- 4.1 Description of first aid measures
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
  - After skin contact:
    - Immediately wash with water and soap and rinse thoroughly.
    - If skin irritation continues, consult a doctor.
  - After eye contact:
    - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - After swallowing:
    - Rinse out mouth with water.
    - Never give anything by mouth to an unconscious person.
    - If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

### SECTION 5: Firefighting measures

- 5.1 Extinguishing media
  - Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
  - Protective equipment:
    - Wear fully protective suit.
    - Mouth respiratory protective device.

### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
  - Wear protective equipment. Keep unprotected persons away.
  - Ensure adequate ventilation
  - Use respiratory protective device against the effects of fumes/dust/aerosol.
  - Avoid contact with eyes.
  - Avoid contact with skin.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose contaminated material as waste according to item 13.

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### 6.4 Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Ensure good ventilation/exhaustion at the workplace.
- Keep receptacles tightly sealed.
- Keep away from heat and direct sunlight.
- Prevent formation of aerosols.
- Avoid contact with skin and eyes.

### Information about fire - and explosion protection:

- Protect from heat.
- Keep respiratory protective device available.

### 7.2 Conditions for safe storage, including any incompatibilities:

#### Requirements to be met by storerooms and receptacles:

- Store in a cool location.
- Store only in the original receptacle.

#### Information about storage in one common storage facility:

- Store away from foodstuffs.
- Store away from flammable substances.

#### Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

### 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

##### 131-11-3 dimethyl phthalate (89,5%)

WEL (Great Britain)	Short-term value: 10 mg/m <sup>3</sup>
	Long-term value: 5 mg/m <sup>3</sup>

VME (France)	Long-term value: 5 mg/m <sup>3</sup>
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##### 7722-84-1 hydrogen peroxide (2,3%)

MAK (Germany)	Long-term value: 0,71 mg/m <sup>3</sup> , 0,5 ppm
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WEL (Great Britain)	Short-term value: 2,8 mg/m <sup>3</sup> , 2 ppm
	Long-term value: 1,4 mg/m <sup>3</sup> , 1 ppm

VME (France)	Long-term value: 1,5 mg/m <sup>3</sup> , 1 ppm
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#### DNELs: Not applicable

#### PNECs: Not applicable

#### Additional information: The lists valid during the making were used as basis.

### 8.2 Exposure controls

#### Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:

#### Appropriate engineering controls: See Section 7 for information about design of technical facilities.

#### Personal protective equipment:

#### Respiratory protection: Suitable respiratory protective device recommended.

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• **Protection of hands:**

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Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**

Tightly sealed goggles

• **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

• **9.1 Information on basic physical and chemical properties**• **Appearance:**

Form:	Liquid
Colour:	Transparent
Odour:	Odourless
Odour threshold:	Data not available.

• **pH-value:** Data not available.

• **Change in condition**

Melting point/Melting range:	Data not available.
Boiling point/Boiling range:	Data not available
Freezing point:	Data not available

• **Flash point:** Data not available

• **Flammability (solid, gaseous):** Not applicable

• **Auto-Ignition temperature:** Data not available

• **Decomposition temperature:** Data not available.

• **Self-igniting:** Product is not selfigniting.

• **Explosive properties:** Product does not present an explosion hazard.

• **Explosion limits:**

Lower:	Data not available.
Upper:	Data not available.
Oxidising properties	Data not available.

• **Vapour pressure:** Data not available.

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- |   |  |
|---|--|
| · <b>Density:</b>                                 | Data not available.                        |
| · <b>Relative density</b>                         | Data not available.                        |
| · <b>Vapour density</b>                           | Data not available.                        |
| · <b>Evaporation rate</b>                         | Data not available.                        |
| · <b>Solubility in / Miscibility with water:</b>  | Data not available                         |
| · <b>Partition coefficient (n-octanol/water):</b> | Data not available.                        |
| · <b>Viscosity:</b>                               |  |
| Dynamic:  | Data not available.                        |
| Kinematic:  | Data not available.                        |
| · <b>9.2 Other information</b>                    | No further relevant information available. |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used according to specification.
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

#### LD/LC50 values relevant for classification:

##### 131-11-3 dimethyl phthalate

Oral	LD50	6800 mg/kg (rat)
Dermal	LD50	>23800 mg/kg (rabbit)

##### 7722-84-1 hydrogen peroxide

Oral	LD50	376 mg/kg (rat)
Dermal	LD50	3000 mg/kg (rat)
Inhalative	LC50/4 h	2 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritating effect possible.
- **Serious eye damage/irritation** Irritating effect possible.
- **Respiratory or skin sensitisation** Sensitization possible.
- **Additional toxicological information:**
- The product is not subjected to classification according to the calculation method based on the EU Directives 67/548/EEC, 1999/45/EC and Regulation 1272/2008/EC.
- **Toxicokinetics, metabolism and distribution** Data not available
- **Acute effects (acute toxicity, irritation and corrosivity)** Data not available
- **Repeated dose toxicity** Data not available
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Data not available

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**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
 Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- |   |                 |
|---|-----------------|
| · <b>14.1 UN-Number</b>   |                 |
| · <b>ADR, IMDG, IATA</b>  | Not applicable  |
| · <b>14.2 UN proper shipping name</b>   |                 |
| · <b>ADR, IMDG, IATA</b>  | Not applicable  |
| · <b>14.3 Transport hazard class(es)</b>  |                 |
| · <b>ADR, IMDG, IATA</b>  |                 |
| · <b>Class</b>  | Not applicable  |
| · <b>14.4 Packing group</b>   |                 |
| · <b>ADR, IMDG, IATA</b>  | Not applicable  |
| · <b>14.5 Environmental hazards</b>   |                 |
| · <b>Marine pollutant:</b>  | No              |
| · <b>14.6 Special precautions for user</b>  | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>   |                 |

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#### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

MAK (German Maximum Workplace Concentration)

7722-84-1 hydrogen peroxide

4

National regulations:

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations

SVHC Candidate List of REACH Regulation Annex XIV Authorisation (17/12/2014)

None of the ingredients is listed.

REACH Regulation Annex XVII Restriction (2/3/2015)

None of the ingredients is listed.

REACH Regulation Annex XIV Authorization List (14/8/2014)

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### SECTION 16: Other information

Relevant phrases

H271 May cause fire or explosion; strong oxidiser.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

R20/22 Harmful by inhalation and if swallowed.

R35 Causes severe burns.

R5 Heating may cause an explosion.

R8 Contact with combustible material may cause fire.

\*\*\*\*\*

The contents and format of this SDS are in accordance with REGULATION (EC) No 1272/2008, REGULATION (EC) No 1907/2006, Regulation (EU) No 453/2010 and EU Commission Directive 1999/45/EC, 67/548/EEC.

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The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

#### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Ox. Liq. 1: Oxidising Liquids, Hazard Category 1

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

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**Safety data sheet**  
**Regulation(EC) No. 1907/2006, 1272/2008**

Printing date 21.05.2015

Revision: 07.05.2015

Trade name: Activator for glow stick

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End of document

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# Safety data sheet

## Regulation(EC) No. 1907/2006, 1272/2008

Printing date 21.05.2015

Revision: 07.05.2015

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier
- Trade name: Chemiluminescer for green glow stick
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture TOY, PARTY ITEMS, DECORATION
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:  
 XIAMEN LONG AFTERGLOW CO.,LTD  
 NO. 1043, TONG JI ZHONG ROAD, TONG AN DISTRICT, XIAMEN, CHINA  
 Tel: 0592-3675699  
 E-mail: yolanda@glo-novelty.com
- Only Representative / other EU contact point Not available
- Further information obtainable from: XIAMEN LONG AFTERGLOW CO.,LTD
- 1.4 Emergency telephone number:  
 Yolanda Hu  
 Tel: 0086-592-3675699

UNITED KINGDOM  
 National Poisons Information Service  
 Tel: +44 (0) 844 892 0111

- 1.5 Reference number: SHTY150400006246-SH; SHATY1507841901

### SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS07

Acute Tox. 4 H302 Harmful if swallowed.  
 Skin Irrit. 2 H315 Causes skin irritation.  
 Eye Irrit. 2 H319 Causes serious eye irritation.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R22: Harmful if swallowed.



Xi; Irritant

R36/38: Irritating to eyes and skin.

- Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of Regulation (EC) No 1272/2008.

- Classification system:

The classification is according to the latest edition of the Directives 67/548/EEC, 1999/45/EC and Regulation (EC) No. 1272/2008, and extended by company and literature data.

- 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to Regulation (EC) No 1272/2008.

- Hazard pictograms



GHS07

- Signal word Warning

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# Safety data sheet

## Regulation(EC) No. 1907/2006, 1272/2008

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Printing date 21.05.2015

Revision: 07.05.2015

Trade name: Chemiluminescer for green glow stick

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### • Hazard-determining components of labelling:

butyl benzoate

### • Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

### • Precautionary statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P103

Read label before use.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P301+P312

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P332+P313

If skin irritation occurs: Get medical advice/attention.

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

### • 2.3 Other hazards

### • Results of PBT and vPvB assessment

• PBT: Not applicable

• vPvB: Not applicable

## SECTION 3: Composition/information on ingredients

### • 3.2 Mixtures

#### • Description:

Mixture of the substances listed below with nonhazardous additions.

For the wording of the listed risk phrases refer to section 16.

#### • Composition:

CAS: 136-60-7	butyl benzoate	
EINECS: 205-252-7	<input checked="" type="checkbox"/> Xn R22; <input checked="" type="checkbox"/> Xi R36/38 <input checked="" type="checkbox"/> Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	85,4%
CAS: 75203-51-9	Bis(2,3,5-trichloro-6-((pentyloxy)carbonyl)phenyl) oxalate	14,0%
EINECS: 278-124-1		
CAS: 10075-85-1	9,10-Bis(phenylvinyl)anthracene	0,6%
	<input checked="" type="checkbox"/> Xi R36/37/38 <input checked="" type="checkbox"/> Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	

## SECTION 4: First aid measures

### • 4.1 Description of first aid measures

#### • General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### • After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

#### • After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

#### • After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### • After swallowing:

Rinse out mouth with water.

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# Safety data sheet

## Regulation(EC) No. 1907/2006, 1272/2008

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Trade name: Chemiluminescer for green glow stick

Never give anything by mouth to an unconscious person.  
Call for a doctor immediately.

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- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

### SECTION 5: Firefighting measures

- 5.1 Extinguishing media  
Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters  
Protective equipment:  
Wear fully protective suit.  
Wear self-contained respiratory protective device.

### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- 6.4 Reference to other sections  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- 7.1 Precautions for safe handling  
Ensure good ventilation/exhaustion at the workplace.  
Keep receptacles tightly sealed.  
Keep away from heat and direct sunlight.  
Prevent formation of aerosols.  
Avoid contact with skin and eyes.
- Information about fire - and explosion protection: Normal measures for preventive fire protection.
- 7.2 Conditions for safe storage, including any incompatibilities:  
Requirements to be met by storerooms and receptacles:  
Store in a cool location.  
Store only in the original receptacle.
- Information about storage in one common storage facility:  
Store away from foodstuffs.  
Store away from flammable substances.  
Store away from oxidising agents.

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**Trade name:** Chemiluminescer for green glow stick

*Do not store together with alkaline materials.*

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• **Further information about storage conditions:**

*Keep container tightly sealed.*

*Store in cool, dry conditions in well sealed receptacles.*

• **7.3 Specific end use(s)** No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

#### • **8.1 Control parameters**

• **Ingredients with limit values that require monitoring at the workplace:**

*The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.*

• **DNELs:** Not applicable

• **PNECs:** Not applicable

• **Additional information:** The lists valid during the making were used as basis.

#### • **8.2 Exposure controls**

• **Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:**

• **Appropriate engineering controls:**

*Keep away from foodstuffs, beverages and feed.*

*Immediately remove all soiled and contaminated clothing*

*Wash hands before breaks and at the end of work.*

*Avoid contact with the eyes and skin.*

*See Section 7 for information about design of technical facilities.*

• **Personal protective equipment:**

• **Respiratory protection:**

*In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.*

• **Protection of hands:**



Protective gloves

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*

*Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*

*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

• **Material of gloves:**

*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*

• **Penetration time of glove material:**

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

• **Eye protection:**



Tightly sealed goggles

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· **Environmental exposure controls:**

(Contd. of page 4)

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

· **Appearance:**

Form:	Liquid
Colour:	Green
Odour:	Odourless
Odour threshold:	Data not available.

· **pH-value:** Data not available.

· **Change in condition**

Melting point/Melting range: Data not available.

Boiling point/Boiling range: Data not available.

· **Freezing point:** Data not available

· **Flash point:** Data not available

· **Flammability (solid, gaseous):** Not applicable

· **Auto-Ignition temperature:** Data not available

· **Decomposition temperature:** Data not available.

· **Self-igniting:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower: Data not available.

Upper: Data not available.

· **Oxidising properties** Data not available.

· **Vapour pressure:** Data not available.

· **Density:** Data not available.

· **Relative density** Data not available.

· **Vapour density** Data not available.

· **Evaporation rate** Data not available.

· **Solubility in / Miscibility with water:** Data not available

· **Partition coefficient (n-octanol/water):** Data not available.

· **Viscosity:**

Dynamic: Data not available.

Kinematic: Data not available.

· **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

· **10.1 Reactivity** No decomposition if used according to specification.

· **10.2 Chemical stability** Stable under recommended storage conditions.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** Strong oxidizing agents, Strong bases

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· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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### SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity

· LD/LC50 values relevant for classification:

136-60-7 butyl benzoate

Oral	LD50	735 mg/kg (rat)
Dermal	LD50	4000 mg/kg (rabbit)

· Primary irritant effect:

· Skin corrosion/irritation Irritant to skin and mucous membranes.

· Serious eye damage/irritation Irritating effect.

· Respiratory or skin sensitisation Sensitization possible.

· Additional toxicological information:

The product is not subjected to classification according to the calculation method based on the EU Directives 67/548/EEC, 1999/45/EC and Regulation 1272/2008/EC.

Harmful

Irritant

· Toxicokinetics, metabolism and distribution Data not available

· Acute effects (acute toxicity, irritation and corrosivity) Data not available

· Repeated dose toxicity Data not available

· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Data not available

### SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

· 12.2 Persistence and degradability No further relevant information available.

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

· 12.7 Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) (Self-assessment); hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

### SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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**Trade name:** Chemiluminescer for green glow stick

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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#### SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** Not applicable
- **14.2 UN proper shipping name**
- **ADR, IMDG, IATA** Not applicable
- **14.3 Transport hazard class(es)**
- **ADR, IMDG, IATA**
- **Class** Not applicable
- **14.4 Packing group**
- **ADR, IMDG, IATA** Not applicable
- **14.5 Environmental hazards**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Not applicable.
- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":**

#### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **MAK (German Maximum Workplace Concentration)**  
None of the ingredients is listed.
- **National regulations:**
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **SVHC Candidate List of REACH Regulation Annex XIV Authorisation (17/12/2014)**  
None of the ingredients is listed.
- **REACH Regulation Annex XVII Restriction (2/3/2015)**  
None of the ingredients is listed.
- **REACH Regulation Annex XIV Authorization List (14/8/2014)**  
None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

#### SECTION 16: Other information

- **Relevant phrases**
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- R22 Harmful if swallowed.
- R36/38 Irritating to eyes and skin.

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**Safety data sheet**  
**Regulation(EC) No. 1907/2006, 1272/2008**

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**Trade name: Chemiluminescer for green glow stick**

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The contents and format of this SDS are in accordance with REGULATION (EC) No 1907/2006, Regulation (EU) No 453/2010 and EU Commission Directive 1999/45/EC, 67/548/EEC.

**DISCLAIMER OF LIABILITY**

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LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

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