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-novely.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:

- 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.

(Contd. on page 2)
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.
Trade name: Activator for glow stick

(Contd. of page 2)

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:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Short-term value</th>
<th>Long-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>131-11-3 dimethyl phthalate (89,5%)</td>
<td>10 mg/m³</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>WEL (Great Britain)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VME (France)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7722-84-1 hydrogen peroxide (2,3%)</td>
<td>0,71 mg/m³, 0,5 ppm</td>
<td></td>
</tr>
<tr>
<td>MAK (Germany)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WEL (Great Britain)</td>
<td>2,8 mg/m³, 2 ppm</td>
<td></td>
</tr>
<tr>
<td>VME (France)</td>
<td>1,4 mg/m³, 1 ppm</td>
<td></td>
</tr>
</tbody>
</table>
- 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.

(Contd. on page 4)
Trade name: Activator for glow stick

- 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**

- Environmental exposure controls:
  Control measures must be made in accordance with Community environmental protection legislation.

---

### SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>9.1 Information on basic physical and chemical properties</strong></td>
<td></td>
</tr>
<tr>
<td>Appearance:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Form:</td>
<td>Transparent</td>
</tr>
<tr>
<td>Colour:</td>
<td>Odourless</td>
</tr>
<tr>
<td>Odour:</td>
<td>Data not available</td>
</tr>
<tr>
<td>Odour threshold:</td>
<td>Data not available</td>
</tr>
<tr>
<td>pH-value:</td>
<td>Data not available</td>
</tr>
<tr>
<td>Change in condition</td>
<td>Data not available</td>
</tr>
<tr>
<td>Melting point/Melting range:</td>
<td>Data not available</td>
</tr>
<tr>
<td>Boiling point/Boiling range:</td>
<td>Data not available</td>
</tr>
<tr>
<td>Freezing point:</td>
<td>Data not available</td>
</tr>
<tr>
<td>Flash point:</td>
<td>Data not available</td>
</tr>
<tr>
<td>Flammability (solid, gaseous):</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto-Ignition temperature:</td>
<td>Data not available</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>Data not available</td>
</tr>
<tr>
<td>Self-igniting:</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>Explosive properties:</td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td>Explosion limits:</td>
<td>Data not available</td>
</tr>
<tr>
<td>Lower:</td>
<td>Data not available</td>
</tr>
<tr>
<td>Upper:</td>
<td>Data not available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Data not available</td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>Data not available</td>
</tr>
</tbody>
</table>

(Cond. on page 5)
Trade name: Activator for glow stick

- 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: 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

(Compl. on page 6)
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

- 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: Not applicable
  - 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)
  7722-84-1 hydrogen peroxide

- 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 Authorization (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.


DISCLAIMER OF LIABILITY
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 Harmonized 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)
  DNEIL: 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
Trade name: Activator for glow stick

(Contd. of page 7)

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

- 1.1 Product identifier
- Trade name: Chemiluminescer for white 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: 0592-3675690
  Email: 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: SHTY150500006280-SH; SHATY1507914901

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:

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
  The product is classified and labelled according to the CLP regulation.
- Hazard pictograms

⚠️ GHS07

- Signal word Warning

(Contd. on page 2)
**Trade name:** Chemiluminescer for white glow stick

**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.
- P311 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.

**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:**

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Name</th>
<th>Purity</th>
</tr>
</thead>
<tbody>
<tr>
<td>136-60-7</td>
<td>205-252-7</td>
<td>Butyl benzoate</td>
<td>85.4%</td>
</tr>
<tr>
<td>75203-51-9</td>
<td>278-124-4</td>
<td>Bis[2,3,5-trichloro-6-[(pentyl oxy)carbonyl]phenyl] oxalate</td>
<td>14.1%</td>
</tr>
<tr>
<td>110904-87-5</td>
<td></td>
<td>9,10-Bis[(4-methoxyphenyl)-2-chloroanthracene</td>
<td>0.3%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Xi R36/37/38</td>
<td></td>
</tr>
<tr>
<td>41105-35-5</td>
<td>255-220-1</td>
<td>1-chloro-9,10-bis[(phenylethynyl)anthracene</td>
<td>0.1%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Xi R36/37/38</td>
<td></td>
</tr>
<tr>
<td>112100-07-9</td>
<td></td>
<td>N,N'-Bis[2,6-diisopropylphenyl]-1,6,7,12-tetrabenoxyperylene-3,4,9,10-tetracarboxdiimide</td>
<td>0.1%</td>
</tr>
</tbody>
</table>

**Remark:** All information of substance N,N'-Bis[2,6-diisopropylphenyl]-1,6,7,12-tetrabenoxyperylene-3,4,9,10-tetracarboxdiimide (CAS NO.112100-07-9) is provided by the formulation owner.

**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.

(Contd. of page 3)
Safety Data Sheet

Printing date 21.05.2015
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Trade name: Chemiluminescer for white glow stick

(Contd. of page 2)

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

- 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
- 5.2 Special hazards arising from the substance or mixture
- 5.3 Advice for firefighters
- 5.4 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
  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 eyes and skin.

(Contd. on page 4)
Trade name: Chemiluminescer for white glow stick

- 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.
    - Do not store together with alkaline materials.
  - 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 the composition shown in Section 3, the following measures are suggested for occupational safety
  - 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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be
observed.

(Contd. on page 5)
Trade name: Chemiluminescer for white glow stick

- 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
- General Information
- Appearance:
  - Form: Liquid
  - Colour: White
  - Odour: Odourless
  - Odour threshold: Data not available.
- pH-value: Data not available.
- Change in condition:
  - Melting point/Melting range: Data not available.
  - Freezing point: Data not available.
  - Boiling point/Boiling range: 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 self-igniting.
- Explosive properties:
  - Product does not present an explosion hazard.
- Explosion limits
  - Lower: Data not available.
  - Upper: Data not available.
- Oxidizing properties:
- Vapour pressure: Data not available.
- Density:
- Relative density:
- Vapour density:
- Evaporation rate:
- 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 specifications.
Safety Data Sheet

Printing date 21.05.2015  Revision: 08.05.2015

Trade name: Chemiluminescer for white glow stick

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

(Contd. of page 5)

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 3450 mg/kg (mouse)
        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 shows the following dangers according to the calculation method based on the EU Directives 67/584/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.

(Contd. on page 7)

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

**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 MARPOL 73/78 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 Authorisation 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.
**Safety Data Sheet**


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

H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

R22 Harmful if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.
R38 Irritating to eyes and skin.


**DISCLAIMER OF LIABILITY:**

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)
DINEL: Derived No-Effect Level (REACH)
PNEC: Predicted No Effect Concentration (REACH)
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/irritation. Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure. Hazard Category 3

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