

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
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### MATERIAL SAFETY DATA SHEET (MSDS)

### LUMINOL (FOR SYNTHESIS)

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Trade name : LUMINOL (FOR SYNTHESIS)

Product code : L0123800005

Identification of the product : Luminol  
CAS No: 521-31-3  
EC No :208-309-4

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Industrial. For professional use only.

##### 1.3. Details of the supplier of the safety data sheet

Company identification : SUVCHEM  
Chaitanya Tower, 2nd Floor, Office # 206,  
Siddharth Nagar, S.V. Road,  
Goregaon (West), Mumbai - 400062,  
Maharashtra, India.  
Contact: +91 22 28725393 / 94 / 95  
Email ID: info@suvchem.com/care@suvchem.com

##### 1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

##### 2.1. Classification of the substance or mixture

##### Classification EC 67/548 or EC 1999/45

Classification : Xi; R36

##### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -  
Category 3 - Warning (CLP : STOT SE 3) H335  
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315  
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

##### 2.2. Label elements

##### Labelling EC 67/548 or EC 1999/45

Symbol(s)



**MATERIAL SAFETY DATA SHEET (MSDS)**
**LUMINOL (FOR SYNTHESIS)**
**2. Hazards identification -DSD (continued)**

<b>Symbol(s)</b>	: Xi : Irritant
<b>R Phrase(s)</b>	: R36 : Irritating to eyes. R37 : Irritating to respiratory system. R38 : Irritating to skin.
<b>S Phrase(s)</b>	: S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37 : Wear suitable protective clothing and gloves.
<b>Contains</b>	: Luminol

**Labelling Regulation EC 1272/2008 (CLP)**
**Hazard pictograms**


<b>Signal words</b>	: Warning
<b>Hazard statements</b>	: H319 : Causes serious eye irritation. H315 : Causes skin irritation. H335 : May cause respiratory irritation.
<b>Precautionary statements</b>	
• <b>Prevention</b>	: P280: Wear protective gloves, protective clothing, eye protection, face protection. P271: Use only outdoors or in a well-ventilated area. P261: Avoid breathing dust, fume, gas, mist, vapours, spray. P264: Wash thoroughly after handling.
• <b>Response</b>	: P302+P352: IF ON SKIN : Wash with plenty of soap and water. P332+P313: If skin irritation occurs : Get medical advice. P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing. P363: Wash contaminated clothing before reuse.
• <b>Storage</b>	: P403+P233: Store in well-ventilated place. Keep container tightly closed. P405: Store locked up.
• <b>Disposal considerations</b>	: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
<b>Contains</b>	: Luminol

**2.3. Other hazards**

<b>Other hazards</b>	: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.
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**3. Composition/information on ingredients**

<b>Substance / Preparation</b>	: Luminol
	EC No :208-309-4

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### MATERIAL SAFETY DATA SHEET (MSDS)

### LUMINOL (FOR SYNTHESIS)

#### 3. Composition/information on ingredients (continued)

Substance.						
Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Luminol	> 99 %	521-31-3	208-309-4	----	----	Xi; R36 ----- Eye irrit 2 _ H319 Skin Irrit. 2 _ H315 STOT SE 3 _ H335

Contains no other components or impurities which will influence the classification of the product.

#### 4. First aid measures

##### 4.1. Description of first aid measures

<b>Inhalation</b>	: Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.
<b>Skin contact</b>	: Specific treatment (see on this label). Get medical advice. If skin irritation occurs : Wash contaminated clothing before reuse. Wash with plenty of soap and water.
<b>Eye contact</b>	: Get medical advice. If eye irritation persists : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
<b>Ingestion</b>	: Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

##### 4.2. Most important symptoms and effects, both acute and delayed

<b>Symptoms relating to use</b>	: Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.
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##### 4.3. Indication of any immediate medical attention and special treatment needed

<b>General information</b>	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
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#### 5. Fire-fighting measures

##### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
<b>Unsuitable extinguishing media</b>	: Do not use a heavy water stream.
<b>Surrounding fires</b>	: Use water spray or fog for cooling exposed containers.

##### 5.2. Special hazards arising from the substance or mixture

<b>Hazardous combustion products</b>	: Under fire conditions, hazardous fumes will be present.
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##### 5.3. Advice for fire-fighters

<b>Protection against fire</b>	: Do not enter fire area without proper protective equipment, including respiratory protection.
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## MATERIAL SAFETY DATA SHEET (MSDS)

### LUMINOL (FOR SYNTHESIS)

#### 5. Fire-fighting measures (continued)

**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

#### 6. Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

**For emergency responders** : Equip cleanup crew with proper protection. Ventilate area.

**For non-emergency personnel** : Evacuate unnecessary personnel.

##### 6.2. Environmental precautions

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

##### 6.3. Methods and material for containment and cleaning up

**Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

##### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

#### 7. Handling and storage

##### 7.1. Precautions for safe handling

**Handling** : Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wash thoroughly after handling.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

**Special precautions** : Avoid breathing dust, fume, gas, mist, vapours, spray.

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

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.

**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

##### 7.3. Specific end use(s)

**Specific end use(s)** : None.

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**LUMINOL (FOR SYNTHESIS)**
**8. Exposure controls/personal protection**
**8.1. Exposure controls**

<b>Personal protection</b>	: Avoid all unnecessary exposure.
• <b>Respiratory protection</b>	: Wear approved mask.
• <b>Hand protection</b>	: Wear protective gloves.
• <b>Skin protection</b>	: Wear suitable protective clothing.
• <b>Eye protection</b>	: Chemical goggles or safety glasses.
• <b>Others</b>	: When using, do not eat, drink or smoke.

**8.2. Control parameters**

<b>Occupational Exposure Limits</b>	: No data available.
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**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

<b>Physical state at 20 °C</b>	: Powder
<b>Colour</b>	: Yellow to green
<b>Odour</b>	: Characteristic.
<b>Odour threshold</b>	: No data available.
<b>pH value</b>	: Not applicable.
<b>Melting point [°C]</b>	: > 300 °C - lit
<b>Decomposition point [°C]</b>	: No data available.
<b>Critical temperature [°C]</b>	: Not applicable.
<b>Auto-ignition temperature [°C]</b>	: No data available.
<b>Flammability (solid, gas)</b>	: No data available.
<b>Flash point [°C]</b>	: Not applicable.
<b>Initial boiling point [°C]</b>	: Not applicable.
<b>Final boiling point [°C]</b>	: Not applicable.
<b>Evaporation rate</b>	: Not applicable.
<b>Vapour pressure [20°C]</b>	: No data available.
<b>Vapour density</b>	: No data available.
<b>Density [g/cm<sup>3</sup>]</b>	: No data available.
<b>Relative density, liquid (water=1)</b>	: Not applicable.
<b>Solubility in water</b>	: No data available.
<b>Log Pow octanol / water at 20°C</b>	: No data available.
<b>Viscosity at 40°C [mm<sup>2</sup>/s]</b>	: No data available.

**9.2. Other information**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**LUMINOL (FOR SYNTHESIS)**
**9. Physical and chemical properties (continued)**

Explosive properties	: No data available.
Explosion limits - upper [%]	: No data available.
Explosion limits - lower [%]	: No data available.
Oxidising properties	: No data available.

**10. Stability and reactivity**
**10.1. Reactivity**

Reactivity : Not established.

**10.2. Chemical stability**

Chemical stability : Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Hazardous reactions : Not established.

**10.4. Conditions to avoid**

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

Materials to avoid : Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

**11. Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

- Inhalation : Based on available data, the classification criteria are not met.
- Dermal : Based on available data, the classification criteria are not met.
- Ingestion : Based on available data, the classification criteria are not met.

Corrosion : Based on available data, the classification criteria are not met.

Irritation : Causes serious eye irritation.  
 Causes skin irritation.  
 May cause respiratory irritation.

Sensitization : Based on available data, the classification criteria are not met.

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### LUMINOL (FOR SYNTHESIS)

#### 11. Toxicological information (continued)

<b>Mutagenicity</b>	: Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	: Based on available data, the classification criteria are not met.
<b>Toxic for reproduction</b>	: Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	: Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>	: Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	: Based on available data, the classification criteria are not met.

#### 12. Ecological information

##### 12.1. Toxicity

**Toxicity information** : Not established.

##### 12.2. Persistence - degradability

**Persistence - degradability** : Biodegradable.

##### 12.3. Bioaccumulative potential

**Bioaccumulative potential** : Not established.

##### 12.4. Mobility in soil

**Mobility in soil** : Not established.

##### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

##### 12.6. Other adverse effects

**Environmental precautions** : Avoid release to the environment.

#### 13. Disposal considerations

##### 13.1. Waste treatment methods

**General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

#### 14. Transport information

##### 14.1. Land transport (ADR-RID)



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**14. Transport information (continued)**

General information : Not regulated.

**14.2. Sea transport (IMDG) [English only]**

General information : Not regulated.

**14.3. Air transport (ICAO-IATA) [English only]**

General information : Not regulated.

**15. Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

**15.2. Chemical Safety Assessment**

Chemical Safety Assessment : It has not been carried out.

**16. Other information**

Revision : Revision - See : \*

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.  
vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

List of relevant R phrases (heading 3) : R36 : Irritating to eyes.  
R37 : Irritating to respiratory system.  
R38 : Irritating to skin.

List of full text of H-statements in section 3 : H315 : Causes skin irritation.  
H319 : Causes serious eye irritation.  
H335 : May cause respiratory irritation.

Further information : None.

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**MATERIAL SAFETY DATA SHEET (MSDS)**

**LUMINOL (FOR SYNTHESIS)**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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