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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 : L0123800025

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)

| | |
|--------------------|---|
| Symbol(s) | : Xi : Irritant |
| R Phrase(s) | : R36 : Irritating to eyes. R37 : Irritating to respiratory system. R38 : Irritating to skin. |
| S Phrase(s) | : 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. |
| Contains | : Luminol |

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms


| | |
|----------------------------------|---|
| Signal words | : Warning |
| Hazard statements | : H319 : Causes serious eye irritation. H315 : Causes skin irritation. H335 : May cause respiratory irritation. |
| Precautionary statements | |
| • Prevention | : 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. |
| • Response | : 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. |
| • Storage | : P403+P233: Store in well-ventilated place. Keep container tightly closed. P405: Store locked up. |
| • Disposal considerations | : 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. |
| Contains | : Luminol |

2.3. Other hazards

| | |
|----------------------|---|
| Other hazards | : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH. |
|----------------------|---|

3. Composition/information on ingredients

| | |
|--------------------------------|------------------|
| Substance / Preparation | : 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

- Inhalation** : Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : 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.
- Eye contact** : 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.
- Ingestion** : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

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

- Symptoms relating to use** : Causes serious eye irritation.
Causes skin irritation. May cause respiratory irritation.

4.3. Indication of any immediate medical attention and special treatment needed

- General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

- Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.

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.

MATERIAL SAFETY DATA SHEET (MSDS)
LUMINOL (FOR SYNTHESIS)
8. Exposure controls/personal protection
8.1. Exposure controls

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

8.2. Control parameters

| | |
|-------------------------------------|----------------------|
| Occupational Exposure Limits | : No data available. |
|-------------------------------------|----------------------|

9. Physical and chemical properties
9.1. Information on basic physical and chemical properties

| | |
|---|----------------------|
| Physical state at 20 °C | : Powder |
| Colour | : Yellow to green |
| Odour | : Characteristic. |
| Odour threshold | : No data available. |
| pH value | : Not applicable. |
| Melting point [°C] | : > 300 °C - lit |
| Decomposition point [°C] | : No data available. |
| Critical temperature [°C] | : Not applicable. |
| Auto-ignition temperature [°C] | : No data available. |
| Flammability (solid, gas) | : No data available. |
| Flash point [°C] | : Not applicable. |
| Initial boiling point [°C] | : Not applicable. |
| Final boiling point [°C] | : Not applicable. |
| Evaporation rate | : Not applicable. |
| Vapour pressure [20°C] | : No data available. |
| Vapour density | : No data available. |
| Density [g/cm³] | : No data available. |
| Relative density, liquid (water=1) | : Not applicable. |
| Solubility in water | : No data available. |
| Log Pow octanol / water at 20°C | : No data available. |
| Viscosity at 40°C [mm²/s] | : 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.

MATERIAL SAFETY DATA SHEET (MSDS)

LUMINOL (FOR SYNTHESIS)

11. Toxicological information (continued)

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

MATERIAL SAFETY DATA SHEET (MSDS)
LUMINOL (FOR SYNTHESIS)
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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