

DR. J. PHARMACHEM PVT. LTD.

Regd. Office : 722/AB/15, "Nirmal", Laxmi Park Colony, Navi Peth, Pune - 411030, India
Telephone : +91 (20) 24530071
Email : info@jpharmachem.com, Web : www.jpharmachem.com
Factory : Plot No. - 311, Sector- 10, Bhosari, Pune, India, 411035



(an ISO 9001:2016 Certificate Company)

Safety Data Sheet

Luminol

Revision date :

Page: 1/7

Version : 3.0

NUMBER

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifiers

Chemical Name	Luminol
CAS NO.	521-31-3

Relevant identified uses of the substance or mixture and uses advised against

1. Luminol is highly sensitive to blood, convenient to use, and nondestructive to other forms of blood testing.

Details of the supplier of the safety data sheet

COMPANY	DR. J. PHARMACHEM PVT LTD
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2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word

Warning

According to European Directive 67/548/EEC as amended

none

Other hazards

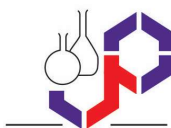
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

3 COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Component

Chemical Name	Luminol
CAS NO	521-31-3
EC Number	208-309-4
Molecular Formula	C ₈ H ₇ N ₃ O ₂



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Molecular Weight 177.16

Concentration >97 %

4 FIRST AID MEASURES

Description of first aid measures

If inhaled

Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear

In case of skin contact

Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

In case of eye contact

Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

If swallowed

Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Irritation, Nausea, Headache, Shortness of breath.;

Indication of any immediate medical attention and special treatment needed

If seeking medical attention, provide SDS document to physician. Physician should treat symptomatically.

5 FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

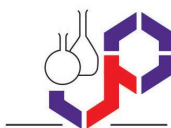
Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition. Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

Special hazards arising from the substance or mixture

Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters

Use NIOSH-approved respiratory protection/breathing apparatus



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Further information

Move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Use spark-proof tools and explosion-proof

6 ACCIDENTAL RELEASE MEASURES

Personal precautions protective equipment and emergency procedures

Wear protective equipment. Use spark-proof tools and explosion-proof equipment. Ensure that air-handling systems are operational. Ensure adequate ventilation.

Environmental precautions

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13. Should not be released into environment.

Methods and materials for containment and cleaning up

Keep in suitable closed containers for disposal. Wear protective eyewear, gloves, and clothing. Refer to Section 8. Always obey local regulations. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect solids in powder form using vacuum with (HEPA filter). Evacuate personnel to safe areas.

Reference to other sections

No data available

7 HANDLING AND STORAGE

Precautions for safe handling

Minimize dust generation and accumulation. Follow good hygiene procedures when handling chemical materials.

Refer to Section 8. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with eyes, skin, and clothing.

Information about protection against explosions and fires

No data available

Conditions for safe storage including any incompatibilities

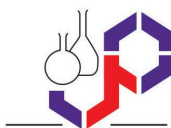
Store away from incompatible materials. Protect from freezing and physical damage. Keep away from food and beverages. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store in cool, dry conditions in w
Store with like hazards

Specific end use(s)

No data available

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters



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Ingredients Comments

No applicable occupational exposure limits

Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use under a fume hood

Eye/face protection

Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles are appropriate eye protection.

Skin protection

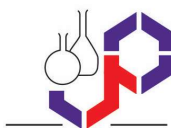
Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing

Respiratory protection

Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	Powder, light yellow
b) Odour	Not determined
c) Odour Threshold	Not determined
d) pH (% solution in water)	Not determined
e) Melting point/freezing point	> 300 °C (> 572 °F) - lit
f) Initial boiling point and boiling range	Not determined
g) Flash point	Not determined
h) Evaporation rate	Not determined
i) Flammability (solid or gas)	Not determined
j) Upper/lower flammability or explosive limits	Not determined



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k) Vapour pressure	Not determined
l) Vapour density	Not determined
m) Relative density	Not determined
n) Water solubility	Not determined
o) Partition coefficient: n-octanol/water	Not determined
p) Autoignition temperature	Not determined
q) Decomposition temperature	Not determined
r) Viscosity	Not determined
s) Explosive properties	Not determined
t) Oxidizing properties	Not determined

9.2 Other safety information

10 STABILITY AND REACTIVITY

Reactivity	Nonreactive under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	None under normal processing
Conditions to avoid	Incompatible Materials
Incompatible materials	Strong acids. Strong bases. Oxidizing agents
Hazardous decomposition products	

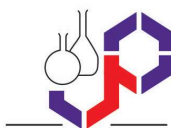
11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute oral toxicity	No additional information
Acute Inhalation toxicity	No data available
Acute dermal toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human



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carcinogen by IARC

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

12 ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and degradability

Biodegradation

No data available

Bio accumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

Other adverse effects

No data available

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product

Product or containers must not be disposed with household garbage.

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Chemical waste generators must also consult local, regional, and national hazardous waste regulations.

Ensure complete and accurate classification.

14 TRANSPORT INFORMATION

UN number

ADR/RID

IMDG

IATA

Not Regulated

Not Regulated

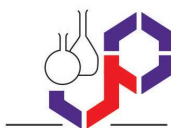
Not Regulated

UN proper shipping name

ADR/RID

IMDG

IATA



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NUMBER

Not Regulated

Not Regulated

Not Regulated

Transport hazard class(es)

ADR/RID

IMDG

IATA

Not Regulated

Not Regulated

Not Regulated

Packaging group

ADR/RID

IMDG

IATA

Not Regulated

Not Regulated

Not Regulated

Environmental hazards

ADR/RID

IMDG Marine pollutant

IATA

Not Regulated

Not Regulated

Not Regulated

Special precautions for user

No data available

15 REGULATORY INFORMATION

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

No data available

Chemical Safety Assessment

No data available

16 OTHER INFORMATION

Month of Creation

March 2023

Month of Revision

March 2027