



INTATRADE  
**MATERIAL SAFETY DATA SHEET**  
according to 1907/2006/EC, Article 31

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**1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY**

Product name: **Luminol**  
Product code: SS00040  
Company: INTATRADE Chemicals GmbH  
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**2. HAZARDS IDENTIFICATION**

Hazard designation: Xn Harmful  
Information pertaining to particular dangers for man and environment: R 22 Harmful if swallowed.  
R 36/37/38 Irritating to eyes, respiratory system and skin.



GHS label elements: Warning  
H302 - Harmful if swallowed.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
Prevention: P280 Wear protective gloves/clothing.  
Response: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical characterization:  
Designation: Luminol  
CAS-No.: 521-31-3  
EC-No.: 208-309-4

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**4. FIRST AID MEASURES**

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
After skin contact Seek immediate medical advice.  
Instantly wash with water and soap and rinse thoroughly.  
Seek immediate medical advice.  
After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.  
After swallowing Seek immediate medical advice.

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**5. FIRE FIGHTING MEASURES**

SS00040

Suitable extinguishing agents:	Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed containers.
Special hazards caused by the material, its products of combustion or flue gases:	Can be released in case of fire: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN)
Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.

## 6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
Measures for environmental protection:	Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting:	Dispose of contaminated material as waste according to item 13.

## 7. HANDLING AND STORAGE

Handling Information for safe handling:	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Information about protection against explosions and fires: No special measures required.
Storage Requirements to be met by storerooms and containers: Information about storage in one common storage facility: Further information about storage conditions:	No special requirements. Store away from oxidizing agents. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Components with critical values that require monitoring at the workplace: Additional information:	Not required. No data
Personal protective equipment general protective and hygienic measures:	The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.
Breathing equipment:	Use breathing protection with high concentrations.
Eye protection:	Safety glasses
Body protection:	Protective work clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

General Information

Form:	Powder
Colour:	Pale yellow
Smell:	Odourless
Change in condition	
Melting point/Melting range:	325-330°C
Boiling point/Boiling range:	Not determined
Sublimation temperature / start:	Not determined
Flash point:	Not applicable
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Danger of explosion:	Product is not explosive.
Critical values for explosion:	
Lower:	Not determined
Upper:	Not determined
Steam pressure:	Not determined
Density:	Not determined
Solubility in water:	Insoluble

## 10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided:	No decomposition if used and stored according to specifications.
Materials to be avoided:	Oxidizing agents
Dangerous reactions:	No dangerous reactions known
Dangerous products of decomposition:	Carbon monoxide and carbon dioxide Nitrogen oxides (NO <sub>x</sub> ) Possibly Hydrogen cyanide (HCN)

## 11 TOXICOLOGICAL INFORMATION

Acute toxicity:	
LD/LC50 values that are relevant for classification:	Oral LD >500 mg/kg (rat)
Primary irritant effect:	
on the skin:	Irritant for skin and mucous membranes.
on the eye:	Irritant effect.
Sensitization:	No sensitizing effect known.
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

## 12. ECOLOGICAL INFORMATION:

Additional ecological information:	
General notes:	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.

## 13. DISPOSAL CONSIDERATIONS

Product	
Recommendation:	Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations.
Uncleaned packagings	
Recommendation:	Disposal must be made according to official regulations.

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## 14. TRANSPORT INFORMATION

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

ADR/RID-GGVS/E Class: None

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: None

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: None

Transport/Additional information: Not dangerous according to the above specifications.

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## 15. REGULATORY INFORMATION

Designation according to EC guidelines

Code letter and hazard designation

of product: Xn Harmful

Risk phrases: 22 Harmful if swallowed.

36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37 Wear suitable protective clothing and gloves.

National regulations

Information about limitation of use: Employment restrictions concerning young persons must be observed.  
For use only by technically qualified individuals.

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

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## 16. OTHER INFORMATION:

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Intatrade Chemicals GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.