

## **MATERIAL SAFETY DATA SHEET**

### **LAWESSONS REAGENT 98%**

**CAS NO. : 1972-47-5**

#### **Section 1: Chemical Product and Company Identification**

##### **Section 1: Chemical Product**

**Product Name: LAWESSONS REAGENT 98%**

**CAS#: 1972-47-5**

**C.I. No.: Not available.**

**Synonym: 2,4-Bis-(4-methoxyphenyl)-1,3-dithia-2,4-diphosphetane 2,4-disulfide**

**Chemical Name: LAWESSONS REAGENT 98%**

**Chemical Formula: C<sub>14</sub>H<sub>14</sub>O<sub>2</sub>P<sub>2</sub>S<sub>4</sub>**

**Brand: OXFORD**

##### **Details Of The Supplier Of The Safety Data Sheet:**

**Company identification: OXFORD LAB FINE CHEM LLP**  
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#### **Section 2: Composition and Information on Ingredients**

##### **Substances**

**Synonyms : 2,4-Bis-(4-methoxyphenyl)-1,3-dithia-2,4-diphosphetane 2,4-disulfide**

**Formula : C<sub>14</sub>H<sub>14</sub>O<sub>2</sub>P<sub>2</sub>S<sub>4</sub>**

**Molecular weight :404.47 g/mol**

**CAS-No. :1972-47-5**

## Section 3: Hazards Identification

### Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008  
Substances and mixtures, which in contact with water, emit flammable gases (Category 2), H261

**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. Contact with water liberates toxic gas.

## Section 4: First Aid Measures

### Description of first aid measures

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### **In case of skin contact**

Wash off with soap and plenty of water.

#### **In case of eye contact**

Flush eyes with water as a precaution.

#### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### **Indication of any immediate medical attention and special treatment needed**

No data available

## Section 5: Fire and Explosion Data

### **Extinguishing media**

Suitable extinguishing media

Dry powder

### **Special hazards arising from the substance or mixture**

Carbon oxides, Sulphur oxides, Oxides of phosphorus

### **Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

### **Further information**

No data available

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## Section 7: Handling and Storage

### Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition- No smoking.

### Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage.

Moisture sensitive. Store under inert gas.

Storage class (TRGS 510): Hazardous materials, which set free flammable gases upon contact with water

## Section 8: Exposure Controls/Personal Protection

### Control parameters

#### Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Section 8: Exposure Controls/Personal Protection (Continued)

### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### **Body Protection**

Flame retardant protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

a) Appearance Form	: Off-white, light yellow or light brown
b) Odour	: No data available.
c) Odour threshold	: No data available.
d) pH	: Not applicable.
e) Melting point/Freezing point	: 228 -230 °C-lit
f) Initial boiling point and boiling range	: No data available.
g) Autoignition temperature	: No data available.
h) Flammability (solid, gas)	: No data available.
i) Upper/lower flammability or explosive limits	: No data available.
j) Flash point [°C]	: No data available.
k) Evaporation rate	: No data available.
l) Vapour pressure	: No data available.
m) Vapour density	: No data available.
n) Relative density,	: No data available.
o) Solubility in water	: No data available.
p) Viscosity	: No data available.
q) Explosive properties	: No data available.
r) Oxidising properties	: No data available.

## Section 9: Physical and Chemical Properties (Continued)

s)Decomposition temperature	: No data available.
t)Autoignition temperature	: No data available.
u)Molecular Weight	: No data available.

## Section 10: Stability and Reactivity Data

**Reactivity :** Contact with water liberates toxic gas.

**Chemical stability :** Stable under recommended storage conditions.

**Possibility of hazardous reactions :** Reacts violently with water.

**Conditions to avoid :** Exposure to moisture.

**Incompatible materials :** Strong oxidizing agents.

**Hazardous decomposition products**

**Other decomposition products - Hazardous decomposition products formed under fire conditions.-**  
Carbon oxides, Sulphur oxides, Oxides of phosphorus

## Section 11: Toxicological Information

**Information on toxicological effects**

**Acute 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**

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

## Section 11: Toxicological Information (Continued)

### 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

### Additional Information

RTECS: Not available

## Section 12: Ecological Information

**Toxicity:** No data available.

**Persistence - degradability :** No data available.

**Bioaccumulative potential :** Not established.

**Mobility in soil :** Not established.

**Results of PBT and vPvB assessment :** 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.

**Other adverse effects :**

No data available.

## Section 13: Disposal Considerations

### Waste treatment methods

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable.  
Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

## Section 14: Transport Information

### Land transport (ADR-RID)

**Proper shipping name :** WATER-REACTIVE SOLID, TOXIC, N.O.S.(2,4-Bis(4-methoxyphenyl)-1,3-dithia-2,4-diphosphetane 2,4-disulphide)

**UN N° :** 3134

**ADR - Class :** 4.3 (6.1)

### Sea transport (IMDG) [English only]

**Proper shipping name :** WATER-REACTIVE SOLID, TOXIC, N.O.S.(2,4-Bis(4-methoxyphenyl)-1,3-dithia-2,4-diphosphetane 2,4-disulphide)

**UN N° :** 3134

**IMO-IMDG - Class or division :** 4.3 (6.1)

**IMO-IMDG - Packing group :** II

### Air transport (ICAO-IATA) [English only]

**Proper shipping name :** WATER-REACTIVE SOLID, TOXIC, N.O.S.(2,4-Bis(4-methoxyphenyl)-1,3-dithia-2,4-diphosphetane 2,4-disulphide)

**UN N° :** 3134

**IATA - Class or division :** 4.3 (6.1)

**IATA - Packing group :** II

## Section 15: Other Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

## Section 16 - Additional Information

**References:** Not available.

**Other Special Considerations:** Not available.



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