SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006
Version 5.1 Revision Date 13.10.2014
Print Date 13.10.2014

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name LR Gold

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

Identified uses Embedding Resin for use in microscopy

1.3 Details of the supplier of the safety data sheet

Company The London Resin Co Ltd
PO Box 2139
Reading
Berkshire
RG7 4YG
UK

Telephone +44 (0)1189712260
Fax as above
E-mail address chris.causton@btinternet.com

1.4 Emergency telephone Number

Emergency phone Number +44 (0)1189712260

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 2), H315
Eye irritation (Category 2), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

N	Dangerous for the environment	R50/53
Xi	Irritant	

For the full text of the R-phrases mentioned in this Section, see Section 16

2.1 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal word	Warning
Hazard statement(s)	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P261	Avoid breathing vapours.
P273	Avoid release to the environment.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/ container to an approved waste disposal plant.
Supplemental Hazard Statements	

2.2 Other hazards - none

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature Liquid

Hazardous components

Chemical Name	CAS-No EC-No Registration No	Classification (67/548/EEC)	Classification (1272/2008/EC	Concentration (%)
ETHOXYLATED BISPHENOL A DIMETHACRYLATE	24448-20-2	Not regarded as a health or environmental hazard under current legislation.	Not regarded as a health or environmental hazard under current legislation.	12-17
Tetrahydrofurfuryl Methacrylate	2455-24-5	Xi; R36	Eye Irrit. 2, H319	7-12
Methacrylic acid ester	90551-76-1 292-094-7	Xi R36/37/38		20-30
Hydroxypropyl methacrylate	27813-02-1	Xi R36/37/38	Eye Irrit. 2, H319	20-30
N,N-dimethyl-p-toluidine	99-97-8	N/A	N/A	<0.2%

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 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).

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

impervious 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 a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Colour: colourless
b)	Odour	slight acrylic
c)	Odour Threshold	no data available
d)	pH	7.4

e)	Melting point/freezing point	Melting point/range: -7 °C - lit.
f)	Initial boiling point and boiling range	142 °C at 5 hPa - lit.
g)	Flash point	105 °C - closed cup
h)	Evaporation rate	no data available
i)	Flammability (solid, gas)	flammable
j)	Density	approx. 1.00 g/cm2
k)	Solubility in water	4.0 mg/l (20oC)
l)	Vapour pressure	ca.0.00 hPa at 20 °C
m)	Vapour density	no data available
n)	Partition coefficient: n-octanol/water	log Pow: 6.766
o)	Auto-ignition temperature	no data available
p)	Decomposition temperature	no data available
q)	Viscosity	no data available
r)	Explosive properties	no data available
s)	Oxidizing properties	no data available

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity
no data available

10.2 Chemical stability
Stable under recommended storage conditions.
Contains the following stabiliser(s):
Mequinol (500 ppm)

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
Polymerisation with release of heat in the presence of radical forming substances or exposure to UV light

10.5 Incompatible materials
Strong oxidizing agents, strong acids, strong bases

10.6 Hazardous decomposition products
Other decomposition products - fumes. Carbon monoxide. Carbon dioxide.

: In the event of fire see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral LD50 > 2000 mg/kg body weightMethod: OECD 401

Dermal LD50 > 5000 mg/kg body weight (Experiment

Skin corrosion/irritation
Skin - rabbit
Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - rabbit
Result: Mild eye irritation - 24 h

Respiratory or skin sensitisation
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.

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: OZ4300000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

SECTION 12: Ecological information

12.1 Toxicity

Acute aquatic toxicity

Fish	LC50 (48 hour): 493 mg/L Method: DIN 38412, Part 1
Crustacea	EC50 (48 hour) > 130 mg/L (*Daphnia magna*) Method: OECD 202
Algae/aquatic plants	EC0 > 100 mg product/L. Method: DIN 38412, Part 27 (ROBRA Test, conforms with OECD 209)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. Instructions for transport

GGVSIGGVE 3131c IMDG
3_31111
IATA 3

15. Regulations

15 1 Labelling according to EC regulation on hazardous substances
See above (section2)

15.1.1 Hazard symbols and signs: Xi
Irritant;

15 1.2 Hazardous components to be indicated on label-

16. Further Information