

C ROBERSON & CO LTD

SAFETY DATA SHEET According to Regulation (EC) No.1907/2006

1) IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND THE COMPANY	Trade Name:	Roberson Liquid Leaf
	Application:	Interior Gilding Paints for wood, metal, glass, ceramics, papier-mache.
	Manufacturer/Supplier:	C. Roberson & Co Ltd 1A Hercules Street, N7 6AT London UK, +44(0) 207 252 0567

2) COMPOSITION/ INFORMATION ON INGREDIENTS	NAME	CAS-NO.	EC-NO.	CLASSIFICATION
	XYLENE	1330-20-7	215-535-7	H226, H332, H312, H315
	GOLD BRONZE POWDER			H302, H319, H400, H410
	COPPER POWDER			H302, H331, H319, H400 H410
	ALUMINIUM POWDER			H228

**3) HAZARDS
IDENTIFICATION****CLASSIFICATION (REGULATION (EC) NO 1272/2008)**

H226 - Physical Flam. Liquid & vapour - Category 3

H228 - Flammable solid - Category 1

H302 - Harmful if swallowed. Acute toxicity, Category 4

H312 – Harmful in contact with skin. Acute toxicity, Category 4

H315 – Causes skin irritation. Skin corrosion/irritation, Category 2

H319 - Causes serious eye irritation. Eye irritation, Category 2

H331 - Toxic if inhaled. Acute toxicity, Category 3

H332 – Harmful if Inhaled. Acute toxicity, Category 4

H400 - Very toxic to aquatic life. Acute aquatic toxicity, Category 1

H410- Very toxic to aquatic life with long lasting effects. Chronic aquatic toxicity, Category 1

LABEL ELEMENTS

Labelling according to Regulation (EC) No 1272/2008

Hazards Pictograms:



Signal Word: **Danger**

HAZARDS STATEMENTS:

H226 - Physical Flam. Liquid & Vapour.

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H331 - Toxic if inhaled.

H410- Very toxic to aquatic life with long lasting effects.

3) HAZARDS IDENTIFICATION

PRECAUTIONARY STATEMENTS:

Prevention:

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P240 - Ground/bond container and receiving equipment.
- P241- Use explosion-proof electrical/ ventilating/ lighting equipment.
- P243 -Take precautionary measures against static discharge.
- P261- Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P264 -Wash skin thoroughly after handling.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

- P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.
Rinse skin with water/ shower.
- P304 + P340 +P311 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE/doctor.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinguishing.
- P337 + P313 If eye irritation persists: Get medical advice/ attention.
- P391 Collect spillage.

Disposal:

- P501 Dispose of contents/ container to an approved waste disposal plant.

Storage:

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Other Hazards:

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

4) FIRST AID MEASURES

GENERAL ADVICE: Remove from exposure, lie down. Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Take off all contaminated clothing immediately. Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours. Consult a physician. Show this safety data sheet to the doctor in attendance.

IF INHALED: Remove to fresh air. Consult a physician after significant exposure. If unconscious place in recovery position and seek medical advice.

IN CASE OF SKIN CONTACT: Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

IN CASE OF EYE CONTACT: Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

IF SWALLOWED: Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting - seek medical advice.

5) FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use water.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:
Specific hazards during firefighting : Flammable. Vapours are heavier than air and may spread along floors. Hazardous decomposition products. Carbon oxides.

ADVICE FOR FIREFIGHTERS: Special protective equipment for fire-fighters. In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)

FURTHER INFORMATION: Cool closed containers exposed to fire with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6) ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use personal protective equipment. Keep people away from and upwind of spill/leak. Provide adequate ventilation. Keep away from heat and sources of ignition. Avoid contact with skin and eyes. Do not breathe gas/fumes/vapour/spray. For personal protection see section 8.

Environmental precautions: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. Local authorities should be advised if significant spillages cannot be contained. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Ensure adequate ventilation. This material and its container must be disposed of as hazardous waste. Risk of explosion. If substance has entered a water course or sewer or contaminated soil or vegetation advise fire brigade or police Vapours may form explosive mixtures with air. Treat recovered material as described in the section "Disposal considerations".

Personal precautions, protective equipment and emergency procedures.

Personal precautions: Use personal protective equipment. Keep people away from and upwind of spill/leak. Provide adequate ventilation. Keep away from heat and sources of ignition. Avoid contact with skin and eyes. Do not breathe gas/fumes/vapour/spray. For personal protection see section 8.6.2 Environmental precautions

7) HANDLING AND STORAGE

Precaution for safe handling.

Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice. Keep container tightly closed. Provide sufficient air exchange and/or exhaust in work rooms. Avoid contact with skin, eyes and clothing. Do not empty into drains. Do not breathe vapours or spray mist. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures: Take off all contaminated clothing immediately. Avoid contact with the skin and the eyes. Do not breathe gas/fumes/vapour/spray. Smoking, eating and drinking should be prohibited in the application area. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and at the end of workday.

Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and containers: Keep in an area equipped with solvent resistant flooring. Suitable materials for containers: Stainless steel Unsuitable materials for containers: Polyvinylchloride polyethylene containers Rubber products Keep away from heat and sources of ignition.

Advice on protection against fire and explosion: Use only explosion-proof equipment. Use only in an area containing explosion proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

Further information on storage conditions: Keep tightly closed in a dry and cool place. Keep in a well-ventilated place. Keep away from heat.

**8) EXPOSURE
CONTROLS/
PERSONAL
PROTECTION**

Control parameters.

Component: Xylene **CAS-No.** 1330-20-7

Regulatory Basis: EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents.

Regulatory List: EU ELV

Value type: Time Weighted Average (TWA):

Value: 50 ppm Value: 221 mg/m³

Remarks: Indicative

Regulatory Basis: EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents.

Regulatory List: EU ELV

Value type: Short Term Exposure Limit (STEL):

Value: 100 ppm

Value: 442 mg/m³

Remarks: Indicative

**8) EXPOSURE
CONTROLS/
PERSONAL
PROTECTION**

Regulatory Basis: UK. EH40 Workplace Exposure Limits (WELs)
Regulatory List: EH40 WEL
Value type: Skin designation:
Remarks: Can be absorbed through the skin.

Regulatory Basis: UK. EH40 Workplace Exposure Limits (WELs)
Regulatory List: EH40 WEL
Value type: Time Weighted Average (TWA):
Value: 50 ppm
Value: 220 mg/m³

Regulatory Basis: UK. EH40 Workplace Exposure Limits (WELs)
Regulatory List: EH40 WEL
Value type: Short Term Exposure Limit (STEL):
Value: 100 ppm
Value: 441 mg/m³

Exposure controls.

Engineering measures: Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection: Use respirator with appropriate filter if vapours or aerosol are released.
 Recommended Filter type: A

Hand protection: Wear suitable gloves. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Protective gloves should be replaced at first signs of wear.

Material: fluorocarbon rubber

Gloves: >= 8 h

Glove thickness: 0.4 mm

Eye protection: Tightly fitting safety goggles

Skin and body protection: Wear suitable protective clothing.

**9) PHYSICAL AND
CHEMICAL
PROPERTIES**

Environmental exposure controls General advice: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. Local authorities should be advised if significant spillages cannot be contained. If the product contaminates rivers and lakes or drains inform respective authorities.

Information on basic physical and chemical properties.

Form: liquid

Color: colorless

Odor: aromatic

Odour Threshold: Currently we do not have any Information from our supplier about this. pH: Currently we do not have any Information from our supplier about this.

Freezing point: -25 °C

Boiling point: 137 - 143 °C

Flash point: 25 °C

Evaporation rate: Currently we do not have any Information from our supplier about this.
Flammability (solid, gas): Currently we do not have any Information from our supplier about this.
Upper explosion limit: 7 %(V)

Lower explosion limit: 1 %(V)

Vapour pressure: 8 hPa 20 °C

Relative vapour density: Currently we do not have any Information from our supplier about this.

Density: 0.87 g/cm³ 20 °C

Water solubility: 9 g/l 25 °C

Partition coefficient: n-octanol/water: 2.77 - 3.15

Ignition temperature: ca. 460 °C

Thermal decomposition: Currently we do not have any Information from our supplier about this.

Viscosity, dynamic: 0.61 mPa.s 20 °C

Explosive properties: Currently we do not have any Information from our supplier about this.

Oxidizing properties: Currently we do not have any Information from our supplier about this

**10) STABILITY AND
REACTIVITY**

Reactivity Advice: No information available.

Chemical stability Advice: No decomposition if stored and applied as directed. No further information available.

Possibility of hazardous reactions Hazardous reactions: Vapours may form explosive mixture with air. Incompatible with oxidizing agents.

Conditions to avoid: No information available.

Incompatible materials: Strong acids Strong oxidizing agents.

Hazardous decomposition products: None known.

Information on toxicological effect.

11) TOXICOLOGICAL INFORMATION

Product: XYLENE

CAS-No.1330-20-7

Danger by skin absorption. Prolonged skin contact may defat the skin and produce dermatitis. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. Repeated and prolonged exposure to solvents may cause brain and nervous system damage.

Acute toxicity **Oral:** Value type: LD50, Value: 4,300 mg/kg, Species: rat

Inhalation: Value type: LC50, Value: 21.7 mg/l, Exposure time: 4 h, Species : rat,
Remarks: These literature data deviate from the classification prescribed by the EC.

Dermal: Value type: LD50, Value: 3,200 mg/kg, Species: rabbit,
Remarks: These literature data deviate from the classification prescribed by the EC.

Irritation **Skin:** Species: rabbit, Result: Irritating to skin.

Eyes: Species: rabbit, Result: Mild eye irritation.

12) ECOLOGICAL INFORMATION

Information on ecological effect.

Product: XYLENE

CAS-No.1330-20-7

Acute toxicity **Fish:** Species: Pimephales promelas, Exposure Time : 96 h, Value type : LC50,
Value: 26.7mg/l

Persistence and degradability **Biodegradability:** Remarks: Readily biodegradable.

Additional ecological information: Remarks: Do not flush into surface water or sanitary sewer system. The product is insoluble and floats on water. The product evaporates readily.

13) DISPOSAL CONSIDERATIONS

Waste treatment methods:

Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services. Empty remaining contents. Risk of explosion. Do not burn, or use a cutting torch on the empty drum. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of as unused product. Dispose of in accordance with local regulations. Waste codes should be assigned by the user based on the application for which the product was used.

14) TRANSPORT INFORMATION

UN number	1307
UN proper shipping name	ADR: XYLENES RID: XYLENES IMDG: XYLENES
Transport hazard class(es)	ADR-Class : 3
(Labels; Classification Code; Hazard identification No; Tunnel restriction code) 3; F1; 30; (D/E)	
RID-Class 3 (Labels; Classification Code; Hazard identification No) : 3; F1; 30	
IMDG-Class 3 (Labels; EmS): 3; F-E, S-D	
Packaging group	ADR : III RID : III IMDG : III
Environmental hazards	Labeling according to 5.2.1.8 ADR : no Labeling according to 5.2.1.8 RID : no Labeling according to 5.2.1.6.3 IMDG : no Classification as environmentally hazardous according to 2.9.3 IMDG : no Classified as "P" according to 2.10 IMDG : no
Special precautions for user	Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

**15) REGULATORY
INFORMATION**
Safety, health and environmental regulations/legislation specific for the substance or Mixture.

UK ISR : xylene: Annual reporting level threshold: 10,000 kg

UK ISR : xylene: Annual reporting level threshold: 10; kg

xylene:

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
INV (CN)	YES	
ENCS (JP)	YES	(3)-3
JEX (JP)	YES	(3)-3
ISHL (JP)	YES	(3)-3
NZ CLSC	YES	
TSCA	YES	
EINECS	YES	215-535-7
KECI (KR)	YES	97-1-275
KECI (KR)	YES	KE-35427
PICCS (PH)	YES	

Chemical Safety Assessment

A chemical safety assessment has not been carried out for this product.

**16) OTHER
INFORMATION**
Full text of R-phrases referred to under sections 2 and 3.

R10 Flammable.
 R20/21 Harmful by inhalation and in contact with skin.
 R38 Irritating to skin.

Full text of H-Statements referred to under sections 2 and 3.

H226 Flammable liquid and vapour.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H332 Harmful if inhaled.

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision.
The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.
The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text
