



## SAFETY DATA SHEET

### ACRYLIC LACQUER (VARIOUS COLOURS)

#### Identification of the Substance / Preparation and Company

##### Product Details

Trade Name : Acrylic Lacquer (various colours)  
Product No :

##### Supplier Details

: LIQUID COLOURS (PTY) LTD  
P O BOX 2685  
Edenvale  
1610  
South Africa  
Tel: +27 11 372-4600  
Fax: +27 11 609-8666

#### Composition / Information On Ingredients

**Chemical Characterisation** : Acrylic resin solution in Ester / Aromatic blend

**Hazardous Ingredients** : Toluene  
Cas No. 108-88-3  
  
Butyl Acetate  
Cas No. 123-86-4  
  
Solvent Blend  
Cas No. 108-88-3  
Cas No. 1330-20-7  
Cas No. 71-23-8  
  
Acrylic Monomer

## Hazards Identification

**Emergency Overview** : WARNING!! Flammable liquid and vapour! Vapour may cause flash fire! Keep away from heat, sparks and flame. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Keep container closed. Use only with adequate ventilation. Avoid exposure during pregnancy. Wash thoroughly after handling.

**Routes of Entry** : Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

### *Potential Acute Health Effects*

**Eyes** : Hazardous in case of eye contact.  
**Skin** : Hazardous in case of skin contact. Skin inflammation is characterised by itching, scaling, reddening.  
**Inhalation** : Hazardous in case of inhalation.  
**Ingestion** : Hazardous in case of ingestion.

### *Potential Chronic Health Effects*

**Carcinogenic effects** : Classified A4 (not classifiable for human or animal) by ACGIH 3 (not classifiable for human) by IARC (Toluene).  
Classified A5 (not suspected for human) by ACGIH (Butyl Acetate)

**Mutagenic effects** : Mutagenic for bacteria and/or yeast (Solvent Blend)  
**Teratogenic effects** : Not listed

**Medical conditions aggravated by over exposure** : Repeated exposure may produce general deterioration of health by an accumulation in one or many human organs.

**Overexposure Signs of symptoms** : Central nervous system depression, headaches, nausea, vomiting.

## First Aid Measures

**General Information** : Remove contaminated clothing immediately and safely dispose.

**Contact with skin** : In case of contact with skin, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention.

**Contact with eyes** : In case of contact with eyes flush with water for 15 minutes, hold eyelids open while rinsing and seek medical attention. Remove contact lenses if worn.

**Ingestion** : Do NOT induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Seek medical attention.

**Notes to physician** : Support respiratory and cardiovascular function.

## Accidental Release Measures

- Small spill and leak** : Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
- Large spill and leak** : Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas: dike if needed.

## Fire - Fighting Measures

- Flammability of product** : Flammable
- Auto Ignition temperature** : The lowest known value is 238°C (460°F) (Solvent Blend)
- Flash points** : Closed cup: 0°C (32°F)
- Flammable limits** : The greatest known range is LOWER: 1.1% UPPER: 12.7% (Solvent Blend)
- Products of combustion** : These products are carbon oxides (CO, CO<sub>2</sub>)
- Fire hazards in presence of various substances** : Flammable in presence of open flames, sparks and static discharge, of heat, oxidising materials, of reducing materials, or combustible materials.
- Explosion hazards in presence of various substances** : Explosive in presence of open flames, sparks and static discharge.

### Fire Fighting Media and Instructions

- Small fire** : Use dry chemical powder.
- Large fire** : Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, auto ignition or explosion.
- Protective clothing** : Be sure to use an approved/certified respirator or equivalent.
- Special remarks on fire hazards** : Containers should be grounded
- Special remarks on explosive hazards** : Vapours mixed with air explode when ignited

## Exposure Controls / Personal Protection

- Engineering controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work station location.

### Personal Protective Equipment

- General Protective Measures** : Avoid contact with eyes and skin



<b>Hygiene Measures</b>	: Keep away from foodstuffs and beverages. Wash hands after use Clean skin thoroughly after work.
<b>Hand</b>	: Butyl rubber gloves
<b>Body</b>	: Chemical resistant protective suit
<b>Eye</b>	: Splash goggles
<b>Face</b>	: Vapour mask
<b>Respiratory</b>	: Vapour respirator. Be sure to use an approved/certified respirator or equivalent.
<b>Feet</b>	: Chemical resistant safety boots

## Physical And Chemical Properties

### *Appearance*

<b>Form</b>	: Liquid
<b>Colour</b>	: Various
<b>Odour</b>	: Strong and Fruity

### *Data Relevant To Safety*

<b>Boiling/condensation Point</b>	: 82 °C (179.6 °F)
<b>Vapour pressure</b>	: The highest known value is 10.1kPa (76 mmHg) at 20 °C (Ethyl acetate) Weighted average: 5.06 kPa (45.45mmHg) at 20 °C
<b>Vapour density</b>	: The highest known value is 3.04 (Air =1) (Ethyl acetate). Weighted average: 1.77 (Air=1)
<b>Volatility</b>	: 100% (v/v) 100% (w/w)
<b>Evaporation rate</b>	: 1.3 compared to Butyl Acetate
<b>VOC</b>	: 80%
<b>Viscosity</b>	: 20 sec ford cup 4
<b>Solubility</b>	: Not soluble in water

## Handling And Storage

<b>Handling</b>	: Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion proof electrical (ventilating, lighting and material handling) equipment.
<b>Storage</b>	: Store in a segregated and approved area. Keep container in a cool, well ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (sparks or flame)

## Stability and Reactivity

- Stability** : This product is stable  
**Conditions of instability** : Heat
- Incompatibility with various substances** : Reactive with oxidizing agents, reducing agents, acids, alkalis.
- Hazardous polymerisation** : Will not occur

## Toxicological Information

- Toxicity to animals** : Acute oral toxicity (LD50): 530 mg/kg Rat (calculated for the mixture)  
Acute dermal toxicity (LD50): 220 mg/kg Rabbit (Glycol Ether)
- Chronic effects on humans**
- Carcinogenic effects** : Classified A5 (not classifiable for human or animal) by ACGIH 3 (not classifiable for human) by IARC (Toluene).  
Classified A5 (not suspected for human) by ACGIH (Butyl Acetate)
- Mutagenic effects** : No additional remarks.
- Other toxic effects on Humans** : Hazardous in case of skin contact (irritant, permeator), of ingestion.  
Slight hazardous in case of skin contact (sensitizer), of inhalation (lung irritant)
- Special remarks on Chronic toxic effects on humans** : Inhalation of vapours may cause dizziness, an irregular heartbeat, narcosis, nausea or asphyxiation. (Toluene).
- Special remarks on other toxic effects on humans** : Exposure can cause nausea, headache and vomiting.

## Disposal Considerations

- Waste information** : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## Ecological Information

- Ecotoxicity** : No data available
- BOD and COD** : The COD is 52 mg/kg (hour/day(s))
- Products of degradation** : Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
- Toxicity of the products of Biodegradation** : The products of degradation are less toxic than the product itself.
- Special remarks on the products of biodegradation** : Formaldehyde and Acetic acid are products of Biodegradation

## Transport Information

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Additional Information
DOT Classification	UN1123	Flammable Liquids N.O.S (Butyl Acetate)	DOT Class 3 Flammable Liquid	III	
TDG Classification	UN1294	Flammable Liquids N.O.S (Toluene)	TDG Class 3 Flammable Liquid	II	
IATA-DGR Class	UN1993	Flammable Liquids N.O.S (Solvent Blend)	IATA Class 3 Flammable Liquid	II	

## Other Information

- Terms of use** : This summarises at the date of issue our best knowledge of health, environmental hazard and safety information related to the product, how to safely handle, use, store and transport the product. Since Liquid Colours cannot anticipate or control the conditions on which the product may be handled, used, stored or transported, every user must prior to usage review the MSDS in relation to intended use, storage and transport of the product in the workplace and elsewhere. Such information should be communicated to all relevant parties. If further information is required please contact Liquid Colours.

Liquid Colours shall not assume any liability for the accuracy or completeness of the information contained herein or any advice given. Liquid Colours sole and exclusive warranty is that it's products comply with Liquid colours published chemical and physical specifications in effect at the time of sale. Liquid Colours liability for claim suits is in all cases limited to the purchase price of the particular quantity of product upon which the claim is based. Under no circumstances shall Liquid Colours be liable for loss of profits or any other indirect and consequential loss or damage.