

**MATERIAL SAFETY DATA SHEET  
IN ACCORDANCE WITH 91/155/EEC**

Date of issue: 03.04.2014

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**1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY:**

PRODUCT TRADE NAME: **KULAC**

KUWAIT CHEMICAL MANUFACTURING Co.

SHUAIBA INDUSTRIAL AREA

WESTERN SECTOR, BLOCK 4,

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EMERGENCY NO.

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**2. PRODUCT COMPOSITION / INFORMATION ON INGREDIENTS:**

PRODUCT CHEMICAL NAME: **ALKYD RESIN**

HS CODE: **3907.50**

PRODUCT GRADE: **KULAC LSN 42X/70**

Solvent based alkyd resin with Xylene at 70±2% solids.

Xylene % by weight 30 ± 2

Alkyd resin % by weight: 70 ± 2

Hazard Symbol Xn

CAS Number (Xylene) 1330-20-7

CAS Number(Alkyd) 68333-62-0 (Proprietary)

Risk phrases: R10-20/21-38

**3. HAZARDS IDENTIFICATION:**

Flammable and harmful liquid. If heated, the product produces toxic vapours and when air-mixed could develop flammable mixtures.

**4. FIRST AID RECOMMENDATIONS:**

Eye contact: Wash with plenty of water for at least 10 minutes, keeping eyelids open and obtain medical attention.

Skin contact: Take off all contaminated clothing. Wash with plenty of water and soap or a suitable skin cleaner. Do not ever use solvent or thinner.

Ingestion: If accidentally swallowed, obtain medical advice immediately. Do not induce vomiting. Material in contact with lungs can damage lungs.

**5. FIRE FIGHTING PROCEDURES:**

Extinguishing media: Dry chemical powder/foam. Isolated fire can also be extinguished with atomized water. Spray with water for cooling the exposed surfaces and for personal protection.

**6. ACCIDENTAL RELEASE MEASURES**

Eliminate possible risk of ignition and ventilate the area. Avoid breathing vapours. Apply safety measures detailed in paragraphs 7 & 8. Stop and collect the spillage with non flammable absorbent materials (i.e.earth, sand, vermiculite and diatoms earth). Collect the waste materials into suitable drums. Prevent the spillage product from entering drains and water ducts. Inform the authorities.

**7. HANDLING AND STORAGE:**

**Handling:** Wear gloves and adequate clothing. If the product is hot while handled, wear appropriate safety mask and goggles.

**Storage:** Keep the product perfectly closed and store in well ventilated dry place. Keep away from oxidising agents and strong acid or alkaline materials. Once the drums were opened, seal them carefully and place them in upright position to avoid spillage. Avoid electrostatic charge formation.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION:**

Wear protective clothing, goggles and safety mask. Keep away from food. Take off all contaminated clothing.

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**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance	viscous liquid
Colour	amber
Odor	characteristic xylene smell
pH	not applicable
Boiling point	approx. 154°C (Xylene)
Solidification point	-47°C (Xylene)
Flash point	approx. 24°C
Ignition temperature	230°C
Explosive limits	Xylene: lower: 1.1% by vol. Upper: 7.0% by vol.
Water solubility	Negligible
Density @ 25°C	approx 0.994 g/cm <sup>3</sup>
Vapour pressure @ 20°C	0.9 kPa
Vapour density	3.7 (Air = 1)
Viscosity @ 25°C Gardner	Z <sub>1</sub> – Z <sub>3</sub>

**10. STABILITY AND REACTIVITY:**

Thermal decomposition:  
Hazardous decomposition products: None if handled appropriately.  
Hazardous reactions: None if stored and handled adequately. Avoid contact with strong oxidising agents.

**11. TOXICOLOGICAL INFORMATION:**

LD50 oral, rat: 4300 mg/kg (Xylene)

**Special properties/effects:**

In high concentrations xylene has irritation effects on eyes and mucous membranes. Skin contact with resin solution bears the risk of skin irritation.

**12. ECOLOGICAL INFORMATION:**

Prevent spillage from filter into drains, watercourses or soil, if this occurs, advise the authorities.

**13. DISPOSAL CONSIDERATIONS:**

Disposal must be made in accordance with applicable governmental regulations, and it must be disposed off in a permitted hazardous waste disposal facility. Disposal of drums must be followed in a controlled and regulated way.

**14. TRANSPORT INFORMATION:**

Road and Rail ADR/TPC-RID/TPF		Class: 3 Label: 3 Flammable Hazard label: 30	Item: 31(c)
Sea IMDG	Page: 3379	Class: 3.3 Marine pollutant: Package group: III	UN No. 1866
Air ICAO/IATA		Class: Package group: III Label: 3 Flammable	UN No. 1866

**15. REGULATORY INFORMATION**

Labeling according to the EEC:

Hazard symbol: Xn. Harmful  
R PHRASES: 10: Flammable  
22: Harmful if swallowed  
36/38: Irritating to eyes and skin

S. PHRASES: 23: Do not breathe vapours  
24: Avoid contact with skin  
62: If swallowed, do not induce vomiting; seek medical advice immediately

**16. OTHER INFORMATION**

THE INFORMATION CONTAINED IN THIS SAFETY DATA SHEET IS ACCURATE TO THE BEST OF OUR KNOWLEDGE AND THEY ARE NOT MEANT TO GUARANTEE SPECIFIC PROPERTIES OF THE PRODUCT.