

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

Date of issue: 01.06.2008 Rev: 0

Page 1 of 2

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY:

KUGEL GC 1975-01

UNITED OIL PROJECTS Co. KSC
SHUAIBA INDUSTRIAL AREA
WESTERN SECTOR, BLOCK 4,
ST. NO. M.A. 7, PLOT NO. 47

TEL: 23263297 / 23263497

FAX: 23260179

EMERGENCY NO.

TEL: 23263297 / 23263497

2. PRODUCT COMPOSITION / INFORMATION ON INGREDIENTS:

Unsaturated polyester gelcoat resin, approx. 73% in styrene.

Polyester resin % by weight	73±3%
Styrene % by weight:	27±3%
Hazard Symbol:	Xn
CAS Number (Styrene):	100-42-5
Risk phrases:	R10-R20-R36/38

3. HAZARDS IDENTIFICATION:

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

4. FIRST AID RECOMMENDATIONS:

Eye contact:	Irritating. Wash with plenty of water and obtain medical attention.
Skin contact:	Wash with plenty of water and soap.
Ingestion:	Small quantities swallowed through the lungs, if the product is ingested, could cause injuries, therefore do not induce vomiting. Seek medical advice.

5. FIRE FIGHTING PROCEDURES:

Extinguishing products: 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

Mark the spillage area. Cut down the source of leakage if there is no danger and eliminate ignition sources.

If there is a major spillage, advise the inhabitants in the neighbourhood (wind direction) about the risk of fire and explosion.

Prevent the waste product from entering drains and water ducts. Inform the authorities. Prevent environmental contamination.

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 at room temperature, perfectly closed and stored in well ventilated and dry places.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Wear protective clothing, goggles and safety mask. Take off all contaminated clothing.

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Page 2 of 2

9. PHYSICAL AND CHEMICAL PROPERTIES:

Form/state	Thixotropic
Colour	White
Odor	Characteristic styrene smell
pH:	NA
Boiling point	Approx. 145 °C (initial-styrene)
Solidification point	0°C
Peak exotherm	±150°C
Flash point	Approx. 31°C
Ignition temperature	Approx. 425 °C
Explosive limits	Styrene: lower: 1.1% by vol. Upper: 8.0% by vol.
Water solubility	Insoluble
Density @ 20°C	Approx. 1.6 g/cm ³
Vapour pressure @ 20°C	Approx. 7 mbar (styrene)
Vapour density	Not known
Viscosity;Brookfield @ 25°C:	90-100 poise @ 50rpm

10. STABILITY AND REACTIVITY:

Thermal decomposition: CO, CO₂
 Hazardous decomposition products: None if handled appropriately.
 Hazardous reactions: None if stored and handled adequately. Avoid strong oxidising agents.

11. TOXICOLOGICAL INFORMATION:

LD50 oral, rat: 2650 mg/kg [Styrene]
Special properties/effects:
 In high concentrations styrene 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.

Any existing national regulations on the handling of styrene and preparations containing styrene should be observed.

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.