

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

Issue date: 14 February 2015

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

PRODUCT TRADE NAME: **KUCRYL**

UNITED OIL PROJECTS Co. KSC  
SHUAIBA INDUSTRIAL AREA  
WESTERN SECTOR, BLOCK 4, TEL: 23263297 / 23263497 FAX: 23260179  
ST. NO. M.A. 7, PLOT NO. 47  
KUWAIT

EMERGENCY NO. TEL: 23263297 / 23263497

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

PRODUCT CHEMICAL NAME: **HYDROXY ACRYLIC RESIN**

HS CODE: **3906.90**

PRODUCT GRADE: **KUCRYL OHA 451S/70**

Hydroxy acrylic copolymer in Butyl Acetate and Xylene at 70 ± 2% solids.

|                                       |                         |
|---------------------------------------|-------------------------|
| Hydroxy acrylic copolymer % by weight | 70 ± 2                  |
| Butyl Acetate % by weight             | 25 ± 2                  |
| Xylene % by weight                    | 5 ± 2                   |
| Hazard Symbol                         | Xn                      |
| CAS Number (Butyl Acetate)            | 123-86-4                |
| CAS Number (Xylene)                   | 1330-20-7               |
| CAS Number (Acrylic copolymer)        | 9003-01-4 (Proprietary) |
| Risk phrases:                         | R10/R20/R21/R36/R38/R65 |

**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                   | < 150, APHA                         |
| Odor                     | Characteristic aromatic smell       |
| Boiling range            | 126 – 139 °C [Solvents mix]         |
| pH                       | Not applicable                      |
| Solidification point     | – 31°C [Butyl Acetate]              |
| Flash point              | Approx. 24°C [Butyl Acetate]        |
| Ignition temperature     | Approx. 421°C [Butyl Acetate]       |
| Explosive limits         | LEL: 1.7% by vol. UEL: 7.6% by vol. |
| Water solubility @20°C   | Insoluble                           |
| Vapour pressure @20°C    | Approx. 13.0mbar [Xylene]           |
| Specific Gravity @25°C   | ± 1.01                              |
| Viscosity, Gardner @25°C | Z <sub>3</sub> – Z <sub>5</sub>     |

**10. STABILITY AND REACTIVITY:**

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

**11. TOXICOLOGICAL INFORMATION:**

**Acute toxicity** [butyl acetate]:  
Oral LD50: 10768 mg/kg [Rat]  
Dermal LD50: 17601 mg/kg [Rabbit]  
Very hazardous in case of ingestion.

**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<br>ADR/TPC-RID/TPF | Class: 3<br>Label: 3 Flammable<br>Hazard label: 30     | Item: 31 (c) |
| Sea<br>IMDG                      | Class: 3<br>Marine pollutant: No<br>Package group: III | UN No. 1866  |
| Air<br>ICAO/IATA                 | Class: 3<br>Package group: III<br>Label: 3 Flammable   | UN No. 1866  |

**15. REGULATORY INFORMATION**

|                                |        |  |
|--------------------------------|--------|--|
| Labeling according to the EEC: |        |  |
| Hazard symbol:                 | Xn.    | Harmful  |
| R PHRASES:                     | 10:    | Flammable  |
|                                | 20/21: | Harmful if swallowed   |
|                                | 36/38: | Irritating to eyes and skin  |
|                                | 65:    | Harmful, may cause lung damage if swallowed                          |
| S. PHRASES:                    | 23:    | Do not breathe vapours   |
|                                | 24:    | Avoid contact with skin  |
|                                | 25:    | Avoid contact with eyes  |
|                                | 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.