

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

Date of issue: 19 June 2017

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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: +965 23263297 / 23263497 FAX: +965 23260179  
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 KUWAIT  
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**2. PRODUCT COMPOSITION / INFORMATION ON INGREDIENTS:**

PRODUCT CHEMICAL NAME: **THERMOSETTING ACRYLIC RESIN**  
 HS CODE: **3906.90**  
 PRODUCT GRADE: **KUCRYL TSA 17S/46**

Thermosetting Acrylic Resin in mixed solvents [Xylene & n-Butanol] at 46 ± 2% solids.

Thermosetting acrylic resin % by weight:	46 ± 2
Mixed Solvents % by weight:	54 ± 2
Hazard Symbol:	Xn
CAS Number (Acrylic copolymer):	9003-01-4 (Proprietary)
CAS Number (Xylene):	1330-20-7
CAS Number (n-Butanol):	71-36-3
Risk phrases:	R10/R20/R21/R22/R37/R38/R41/R67

**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:**

Inhalation:	Move exposed person to fresh air. Do not attempt to rescue the victim unless appropriate respiratory protection is worn. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.
Eye contact:	Check for and remove any contact lenses. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse with large amounts of water for at least 10 minutes. Get medical attention.
Skin contact:	Remove contaminated clothing and footwear. Immediately flush skin with plenty of water for at least 15 minutes followed by washing with plenty of water and soap. Clean and wash clothing and footwear thoroughly before reuse.
Ingestion:	Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop, if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position to get . Seek medical advice.

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**5. FIRE FIGHTING PROCEDURES:**

Extinguishing Media	SMALL FIRE: Use dry chemical powder. LARGE FIRE: Use water spray or fog. In-order to prevent any splashing of the product and the fire from spreading, water jet should never be directed into the container. Cool containers with water jet in order to prevent pressure build-up, auto ignition or explosion.
Suitable extinguishing media	Use dry chemical, CO <sub>2</sub> , water spray (for) or foam.
Not suitable extinguishing media	Do not use water jet, in-order to avoid the fire to extend.
Special exposure hazards	Flammable liquid. High chances for pressure build up, if the container is heated or in a fire with subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapour may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Fire may liberate carbon oxides and smoke. Promptly isolate the area by removing all the persons from the vicinity if there is a risk of fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if possible without risk. Use water spray to keep fire-exposed containers cool.
Protection of Fire fighters	Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full piece operated in positive pressure mode.

**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions	Persons with suitable training only should be involved. Evacuate surrounding areas. Prevent unprotected personnel from entering the premises. Do not walk through or touch spilled material. Shut off all ignition sources. Smoking, flares or flames is prohibited in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respiratory protection if ventilation is inadequate. Appropriate personal protective equipment must be worn.
Environmental precautions	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. Prevent environmental contamination. Inform the authorities if the product has caused environmental pollution.
Methods for cleaning up	Mark the spillage area. Cut down the source of leakage if there is no danger and eliminate ignition sources. Remove the product containers from the spill area. Approach the leak from upwind direction. Prevent entry into sewers, water courses or confined areas. Wash spillages into a waste treatment plant or contain and collect the spillage with non-combustible, absorbent material like sand, vermiculite or diatomaceous earth and collect in container for disposal according to local regulations.

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**7. HANDLING AND STORAGE:**

Handling	<p>Wear gloves and adequate clothing. If the product is hot while handled, wear appropriate safety mask and goggles.</p> <p>Eliminate every possible source of ignition. When a temperature equal to higher than the flash point, the mixture steam-air may create a highly flammable and explosive mixture. Use special care to avoid static electric discharges.</p>
Storage	<p>Keep the product at room temperature, perfectly closed and stored in well ventilated and dry places.</p> <p>Store in accordance with local regulations. Store in a segregated and approved area.</p> <p>Eliminate all ignition sources. Separate from oxidising materials. Keep the container tightly closed until ready for use. Containers that have been opened must be carefully closed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p>

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

Exposure limit values	Not available
Exposure controls	
Engineering measures	<p>Use only with adequate ventilation. Use local exhaust ventilation or other engineering controls to keep personnel exposure to airborne contaminants below any recommended or statutory limits. The engineering controls should be in-order to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion proof ventilation equipment.</p>
Hygiene measures	<p>Wash hands, forearms and face thoroughly after handling chemical products. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reuse.</p> <p>Ensure that eyewash stations and safety showers are close to the workstations.</p>

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Form/state	Viscous liquid
Colour	< 1 [Gardner]; Clear
Odor	Characteristic aromatic smell
Boiling range	Approx. 118 – 139°C [Solvents mix]
Acid value [on solids]	6 – 10 [mg KOH/g]
Solidification point	– 25°C [Xylene]
Flash point	Approx. 28°C [Solvents mix]
Ignition temperature	Approx. 416°C [Solvents mix]
Explosive limits	Lower: 1.6% by vol.; Upper: 8.8% by vol. [Solvents mix]
Water solubility @ 20°C	Negligible
Vapour pressure @ 20°C	Approx. 0.73 kPa [Solvents mix]
Vapour density (air = 1)	Approx: 3.32 [Solvents mix]
Viscosity; Gardner @ 25°C	<b>V – X</b>

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**10. STABILITY AND REACTIVITY:**

Thermal decomposition	None if handled appropriately.
Conditions to avoid	Exposure to heat, direct sunlight, etc.
Materials to avoid	Reactive or incompatible with Oxidising materials, Strong acids. Slightly reactive or incompatible with acids & alkalis, peroxides and certain metal salts such as aluminium chloride, iron (III) chloride, etc.

**11. TOXICOLOGICAL INFORMATION:**

Potential acute health effects			
Inhalation	Harmful by inhalation.		
Ingestion	Irritating to mouth, throat and stomach.		
Skin contact	Irritating to skin.		
Eye contact	Irritating to eyes.		
Acute toxicity	No data available.		
Ingredient name	Test	Species	Result
Xylene	LD50 (Inhalation, 4hr)	Rat	>20 mg/l
	LD50 (Dermal)	Rat	>2000 mg/Kg
	LD50 (Oral)	Rat	>2000 mg/Kg
Special properties	None		
Potential chronic health effects			
Chronic effects	No known significant effects or critical hazards.		
Carcinogenicity	No known significant effects or critical hazards.		
Fertility effects	No known significant effects or critical hazards.		

**12. ECOLOGICAL INFORMATION:**

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

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**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		Class: 3	Item: 31(c)
ADR/TPC-RID/TPF		Label: 3 Flammable Hazard label: 30	
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
	20/21/22:	Harmful by inhalation in contact with skin and if swallowed.
	37/38:	Irritating to respiratory system and skin.
	41:	Risk of serious damage to eyes.
	67:	Vapours may cause drowsiness and dizziness.
S PHRASES:	13:	Keep away from food, drink and animal feeding stuffs.
	23:	Do not breathe vapours.
	24/25:	Avoid contact with skin and eyes.
	26:	If contact with eyes, rinse immediately with plenty of water- and seek medical advice.
	37/39:	Wear suitable gloves and eye/face protection.
	62:	If swallowed, do not induce vomiting: seek medical advice- immediately and show this container or label.

**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.