

U-POL

PRODUCTS

PRODUCT SAFETY DATA SHEET

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COMMERCIAL PRODUCT NAME: U-POL 2K SYSTEM 20 HIGH SOLIDS HARDENER

PREPARATION: HARDENER CONTAINING MIXTURE OF SOLVENTS

ADDRESS: Denington Industrial Estate,
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COMPOSITION/INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>CAS NO.</u>	<u>LEVEL</u>	<u>SYMBOL</u>	<u>RISK</u>
XYLENE	1330-20-7	0 - 5%	Xn - Harmful.	R10 R20/21 R38
TOLUENE	108-88-3	0 - 25%	Xn - Harmful. F - Highly flammable.	R20
2 METHOXY-1-METHYL ETHYL ACETATE	108-65-6	0 - 5%	Xi - Irritant.	R10 R36
HEXAMETHYLENE DIISOCYANATE	822-06-0	0 - 0.1%	T - Toxic. Xi - Irritant.	R23 R36/37/38 R42/43
SOLVENT NAPHTHA	64742-95-6	0 - 25%		R10
ISOPHORONE DIISOCYANATE	53880-05-0	0 - 0.2%	Xn - Harmful.	R20

HAZARDS IDENTIFICATION

INHALATION: May cause drowsiness and irritation of respiratory tract. In extreme cases, may cause sensitisation.

SKIN: May cause irritation on prolonged contact, which can lead to dermatitis.

EYES: Irritation and soreness.

INGESTION: Sore throat, stomachache, nausea.

FIRST AID MEASURES

INHALATION: Move affected person to the fresh air without delay. If drowsiness persists seek medical attention.

SKIN CONTACT: Wash affected area with warm soapy water. Do not use solvents.

EYE CONTACT: Irrigate with copious quantities of water and seek medical attention immediately.

INGESTION: Do not induce vomiting, drink plenty of water and seek medical attention.

FIRE FIGHTING MEASURES

Fight fires with CO₂, dry powder, or chemical foam. Do not use water jets. Burning material emits toxic fumes and smoke, so avoid inhalation of burning products.

ACCIDENTAL RELEASE MEASURES

The product will readily flow. Contain and collect any spillage with sand or earth. Keep product away from drains. Avoid sources of ignition. Dispose of in accordance with the requirements of the Environmental Protection Act.

HANDLING AND STORAGE

HANDLING: Keep away from heat. Keep away from sources of ignition. Avoid contact with skin and eyes. Dispense only in well ventilated areas.

STORAGE: Store in accordance with The Highly Flammable Liquids and Liquefied Petroleum Gases Regulations.

EXPOSURE CONTROLS/PERSONAL PROTECTION

A good standard of personal and industrial hygiene should be maintained at all times. Persons who suffer from skin complaints or other allergic effects should not work with the product.

OEL (UK)	Component	8 HR TWA	15 mins STEL
	Xylene	100 ppm	150 ppm
	Toluene	50 ppm	150 ppm
	Aliphatic Diisocyanate	0.02 mg/m ³	0.07 mg/m ³

EYE PROTECTION: Not necessary.

PROTECTIVE CLOTHING: Recommended.

RESPIRATORY PROTECTION: Suitable respiratory protection necessary, e.g., air fed mask, when spraying at all times.

SKIN PROTECTION: Barrier cream recommended.

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear liquid.

ODOUR: Characteristic.

DENSITY: Approx. 1.0.

FLASH POINT: 5°C - 25°C.

AUTO-FLAMMABILITY TEMPERATURE: 490°C (Xylene).

EXPLOSIVE LIMITS: Lower 1.0%. Upper 6.6% (Xylene).
VOLATILE CONTENT: Approx. 35%.
SOLUBILITY: Insoluble in water.
VISCOSITY: Approx. 100 centipoise.

STABILITY AND REACTIVITY

Stable under normal conditions. Heat increase may be sufficient to raise the temperature above the product flash point. Thermal decomposition can give rise to acrid fumes. Moisture may cause premature polymerisation or foaming.

TOXICOLOGICAL INFORMATION

For Xylene, the following values have been reported:-

An oral LD50 in rats of 4.3g/Kg.
LC50 in rats of 5000 ppm/4 hours.

For Toluene the following values have been reported:-

An oral LD50 in rats of 5000 mg/Kg.

For aliphatic isocyanate, the following values have been reported:-

An oral LD50 in rats of 5000 mg/Kg.

ECOLOGICAL INFORMATION

Marine pollutant and non biodegradable.

Paint hardeners are low viscosity compositions which lose solvents by evaporation and absorb moisture, leaving a relatively inert residue which will not degrade significantly.

DISPOSAL CONSIDERATIONS

The material and any contaminated container should be disposed of in accordance with the Environmental Protection Act.

TRANSPORT INFORMATION

SHIPPING NAME: PAINT RELATED MATERIAL
UNITED NATION NO: UN 1263.
CLASS NO: 3.2 (fast). 3.3 (slow).
HARMONISED SYSTEMS NO: 320890 91 5.
PACKING GROUP: II (fast). III (slow).

Complies with The Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) Regulations.

For current International Maritime Dangerous Goods Declaration, please contact our Export Department
Telephone No: 44-(0)020-492-5950

REGULATORY INFORMATION

	<u>FAST</u>	<u>SLOW</u>
CONTAINS:	Toluene.	Mixture of solvents.
SYMBOL:	F Highly flammable.	-
	Xn Harmful.	Xi Irritant.
RISK PHRASES:	R11 Highly flammable.	R10 Flammable.
	R20 Harmful by inhalation.	-
	R42/43 May cause sensitisation by inhalation and skin contact.	R42/43 May cause sensitisation by inhalation and skin contact.
SAFETY PHRASES:	S23 Do not breathe vapour/spray.	S23 Do not breathe vapour/spray.
	S38 In case of insufficient ventilation wear suitable respiratory equipment.	S38 In case of insufficient ventilation wear suitable respiratory equipment.

FURTHER INFORMATION

Used to polymerise 2 pack paint.

Reference should be made to the following official publications:-

EH40, C.O.S.H.H. Regulations, Environmental Protection Act.

ISSUE NUMBER: 0001

ISSUE DATE: 07.03.02