

# U-POL™

## SAFETY DATA SHEET 2K SYSTEM 20 FAST HARDENER

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Issued: 19/04/2004  
Revision No: 2

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

**Product name:** 2K SYSTEM 20 FAST HARDENER

**Product code:** S2030

**Use / description of product:** FAST HARDENER

**Company name:** U-Pol Products

Denington Industrial Estate

Denington Road

Wellingborough

Northants

NN8 2QP

United Kingdom

Tel: 44-(0)-1933 230300

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Hazardous ingredients:** TOLUENE 50-70%

EINECS: 203-625-9 CAS: 108-88-3

[F] R11; [Xn] R20

### 3. HAZARDS IDENTIFICATION

**Main hazards:** Highly flammable. Harmful by inhalation.

**Other hazards:** Harmful in contact with skin. May cause sensitisation by skin contact.

### 4. FIRST AID MEASURES (SYMPTOMS)

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

### 4. FIRST AID MEASURES (ACTION)

**Skin contact:** Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Do not induce vomiting. Wash out mouth with water. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

[cont...]

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2K SYSTEM 20 FAST HARDENER**5. FIRE-FIGHTING MEASURES**

**Extinguishing media:** Carbon dioxide. Dry chemical powder. Alcohol or polymer foam. Do not use water.

**Exposure hazards:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Highly flammable.

**Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Refer to section 8 of SDS for personal protection details.

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**Clean-up procedures:** Absorb into dry earth or sand. Wash the spillage site with large amounts of water.

**7. HANDLING AND STORAGE**

**Handling requirements:** Ensure there is sufficient ventilation of the area. Smoking is forbidden.

**Storage conditions:** Store in cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Hazardous ingredients:** TOLUENE

TWA (8 hr exposure limit): 191 mg/m<sup>3</sup> STEL (15 min exposure limit): 574 mg/m<sup>3</sup> (OES)

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

**Respiratory protection:** Compressed airline breathing apparatus (EN139).

**Hand protection:** Nitrile gloves.

**Eye protection:** Face-shield.

**Skin protection:** Protective clothing with elasticated cuffs and closed neck.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Liquid

**Colour:** Colourless

**Odour:** Aromatic

**Evaporation rate:** Moderate

**Solubility in water:** Insoluble

**Also soluble in:** Most organic solvents.

**Viscosity:** Non-viscous

**Viscosity value:** 100 cps

**Flammability limits %: lower:** 1.20

**upper:** 7.0

**Flash point°C:** 4

**Autoflammability°C:** 535

**Relative density:** 1.0

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VOC g/l: 595

**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Heat. Sources of ignition. Flames.

**Haz. decomp. products:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

**11. TOXICOLOGICAL INFORMATION**

**Hazardous ingredients:** TOLUENE  
IVN RAT LD50 1960 mg/kg  
ORL MUS LD50 2 gm/kg  
ORL RAT LD50 6900 mg/kg

**Chronic toxicity:** May cause sensitisation by skin contact.

**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

**12. ECOLOGICAL INFORMATION**

**Mobility:** Insoluble in water.

**Persistence and degradability:** Not biodegradable.

**Bioaccumulative potential:** No data available.

**Other adverse effects:** Very toxic to aquatic organisms.

**13. DISPOSAL CONSIDERATIONS**

**Disposal operations:** D10 Incineration on land.  
R1 Solvent reclamation/regeneration.

**Disposal of packaging:** Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**14. TRANSPORT INFORMATION**

**ADR / RID**

<b>UN no:</b> 1263	<b>ADR Class:</b> 3
<b>Packing group:</b> II	<b>Classification code:</b> F1
<b>Shipping name:</b> PAINT RELATED MATERIAL	
<b>Labelling:</b> 3	<b>Hazard ID no:</b> 33



**IMDG / IMO**

<b>UN no:</b> 1263	<b>Class:</b> 3
<b>Packing group:</b> II	<b>EmS:</b> F-E,S-E
<b>Marine pollutant:</b> .	<b>Labelling:</b> 3

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**IATA / ICAO**

<b>UN no:</b> 1263	<b>Class:</b> 3
<b>Packing group:</b> II	<b>Packing instructions:</b> 305(P&CA); 307(CAO)
<b>Labelling:</b> 3	

**15. REGULATORY INFORMATION**

**Hazard symbols:** Highly flammable.  
Harmful.



**Risk phrases:** R11: Highly flammable.  
R20: Harmful by inhalation.

**Safety phrases:** S16: Keep away from sources of ignition - No smoking.  
S23: Do not breathe vapour/spray  
S36/37: Wear suitable protective clothing and gloves.  
S38: In case of insufficient ventilation, wear suitable respiratory equipment.

**Precautionary phrases:** Contains isocyanates. See information supplied by the manufacturer.

**VbF:** All

**Water hazard class:** 1

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

**16. OTHER INFORMATION**

**Risk phrases used in s.2:** R11: Highly flammable.  
R20: Harmful by inhalation.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.