

# U-POL™

## SAFETY DATA SHEET

2K SYSTEM 20 VOC COMPLIANT CLEAR COAT

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

**Product name:** 2K SYSTEM 20 VOC COMPLIANT CLEAR COAT

**Product code:** S2084V

**Use of substance / preparation:** PAINT PRODUCT CONTAINING MIXTURE OF SOLVENTS

**Company name:** U-Pol Products

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### 2. HAZARDS IDENTIFICATION

**Main hazards:** Highly flammable. Irritating to eyes and skin. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed.

**Other hazards:** Harmful: may cause lung damage if swallowed.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Hazardous ingredients:** ACETONE 1-10%

EINECS: 200-662-2 CAS: 67-64-1

[F] R11; [Xi] R36; [-] R66; [-] R67

- 2-BUTOXYETHYL ACETATE 1-10%

EINECS: 203-933-3 CAS: 112-07-2

[Xn] R20/21

- N-BUTYL ACETATE 1-10%

EINECS: 204-658-1 CAS: 123-86-4

[-] R10; [-] R66; [-] R67

[cont...]

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- XYLENE <1%  
EINECS: 215-535-7 CAS: 1330-20-7  
[-] R10; [Xn] R20/21; [Xi] R38
- LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM),  
LIGHT AROM. 10-30%  
EINECS: 265-199-0 CAS: 64742-95-6  
[-] R10; [Xi] R37; [N] R51/53; [Xn] R65
- METHYL ACETATE 10-30%  
EINECS: 201-185-2 CAS: 79-20-9  
[F] R11; [Xi] R36; [-] R66; [-] R67
- 4-CHLORO BENZOTRIFLUORIDE 1-10%  
EINECS: 202-681-1 CAS: 98-56-6  
[-] R10; [Xi] R36/37/38; [-] R52
- 4-METHYLPENTAN-2-ONE 1-10%  
EINECS: 203-550-1 CAS: 108-10-1  
[F] R11; [Xn] R20; [Xi] R36/37; [-] R66

#### 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 pain.
- Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
- Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur.

#### 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. Transfer to hospital for specialist examination.
- Ingestion:** Do not induce vomiting. Wash out mouth with water. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so.

#### 5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Carbon dioxide. Dry chemical powder. Alcohol or polymer foam.
- Exposure hazards:** Flammable. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.
- Protection of fire-fighters:** Wear self-contained breathing apparatus.

#### 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. Alert the neighbourhood to the presence of fumes or gas.

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**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. Keep away from direct sunlight.

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

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Workplace exposure limits

**WEL (8 hr exposure limit):** 50 ppm

**WEL (15 min exposure limit):** 100 ppm

#### Respirable dust

**WEL (8 hr exposure limit):** 1 mg/m<sup>3</sup>

#### Hazardous ingredients:

ACETONE  
WEL (8 hr exposure limit): 1210 mg/m<sup>3</sup> WEL (15 min exposure limit): 3620 mg/m<sup>3</sup>

- 2-BUTOXYETHYL ACETATE

WEL (8 hr exposure limit): 130 mg/m<sup>3</sup> WEL (15 min exposure limit): 520 mg/m<sup>3</sup>

- N-BUTYL ACETATE

WEL (8 hr exposure limit): 724 mg/m<sup>3</sup> WEL (15 min exposure limit): 966 mg/m<sup>3</sup>

- XYLENE

WEL (8 hr exposure limit): 220 mg/m<sup>3</sup> WEL (15 min exposure limit): 441 mg/m<sup>3</sup>

- METHYL ACETATE

WEL (8 hr exposure limit): 616 mg/m<sup>3</sup> WEL (15 min exposure limit): 770 mg/m<sup>3</sup>

- 4-CHLORO BENZOTRIFLUORIDE

WEL (8 hr exposure limit): 25 ppm

- 4-METHYLPENTAN-2-ONE

WEL (8 hr exposure limit): 208 mg/m<sup>3</sup> WEL (15 min exposure limit): 416 mg/m<sup>3</sup>

**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

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**Evaporation rate:** Moderate  
**Oxidising:** Non-oxidising (by EC criteria)  
**Solubility in water:** Insoluble  
**Also soluble in:** Most organic solvents.  
**Viscosity:** Non-viscous  
**Viscosity value:** 150cps  
**Boiling point/range°C:** 40  
**Flammability limits %: lower:** 2.6  
**upper:** 13.0  
**Flash point°C:** -22  
**Autoflammability°C:** 465  
**Relative density:** 1.0  
**VOC g/l:** 379

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.  
**Conditions to avoid:** Direct sunlight. Heat. Sources of ignition. Flames.  
**Haz. decomp. products:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

**Hazardous ingredients:** ACETONE  
IVN RAT LD50 5500 mg/kg  
ORL MUS LD50 3 gm/kg  
ORL RAT LD50 5800 mg/kg

- 2-BUTOXYETHYL ACETATE  
ORL MUS LD50 3200 mg/kg  
ORL RAT LD50 2400 mg/kg
- N-BUTYL ACETATE  
ORL MUS LD50 6 gm/kg  
ORL RAT LD50 10768 mg/kg
- XYLENE  
ORL MUS LD50 2119 mg/kg  
ORL RAT LD50 4300 mg/kg  
SCU RAT LD50 1700 mg/kg
- LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.  
ORL RAT LD50 8400 mg/kg
- METHYL ACETATE  
ORL RAT LD50 >5 gm/kg  
SCU RAT LDLO 8 gm/kg

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- 4-CHLORO BENZOTRIFLUORIDE  
IHL MUS LC50 20 mg/l  
IHL RAT LC50 33 mg/l/4hrs  
ORL MUS LD50 11500 mg/kg  
ORL RAT LD50 13000 mg/kg  
SKN RBT LD50 >2000 mg/kg
- 4-METHYLPENTAN-2-ONE  
IPR RAT LD50 400 mg/kg  
ORL MUS LD50 1900 mg/kg  
ORL RAT LD50 2080 mg/kg

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

#### 12. ECOLOGICAL INFORMATION

**Mobility:** Volatile.

**Persistence and degradability:** Not biodegradable.

**Bioaccumulative potential:** No data available.

**Other adverse effects:** No data available.

#### 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

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**Marine pollutant:** .

**Labelling:** 3

**IATA / ICAO**

**UN no:** 1263

**Class:** 3

**Packing group:** II

**Packing instructions:** 305(P&CA); 307(CAO)

**Labelling:** 3

**15. REGULATORY INFORMATION**

**Hazard symbols:** Highly flammable.

Harmful.



**Risk phrases:** R11: Highly flammable.

R36/38: Irritating to eyes and skin.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65: Harmful: may cause lung damage if swallowed.

**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.

S42: During fumigation / spraying wear suitable respiratory equipment.

**Water hazard class:** 1 Classification by VwVwS

**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.

US VOC CONVERSION FACTOR 250 g/l = 2.1 lb/gal

**16. OTHER INFORMATION**

**Other information:** This safety data sheet is prepared in accordance with EC Directive 2001/58/EC.

FOR PROFESSIONAL USE ONLY. Read full instructions before use.

IMPORTANT: This product contains hazardous materials and therefore appropriate personal protective equipment should always be used.

Please refer to the label and consult the material safety data sheet for full handling instructions and personal protection information. These are available via your local stockist or via the U-POL website at WWW.U-POL.COM.

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U-POL disclaim any liability where the user does not wear the recommended personal protective equipment.

**Risk phrases used in s.3:** R11: Highly flammable.  
R36: Irritating to eyes.  
R66: Repeated exposure may cause skin dryness or cracking.  
R67: Vapours may cause drowsiness and dizziness.  
R20/21: Harmful by inhalation and in contact with skin.  
R10: Flammable.  
R38: Irritating to skin.  
R37: Irritating to respiratory system.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65: Harmful: may cause lung damage if swallowed.  
R36/37/38: Irritating to eyes, respiratory system and skin.  
R52: Harmful to aquatic organisms.  
R20: Harmful by inhalation.  
R36/37: Irritating to eyes and respiratory system.

**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. Addition of reducers, hardeners and other additives over and above U-POL's recommendations for use, may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, this company shall not be held liable for any damage resulting from handling or from contact with the above product.