



SAFETY DATA SHEET

2K SYSTEM 20 STANDARD HARDENER

Page 1

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Revision No: 2

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

Product name: 2K SYSTEM 20 STANDARD HARDENER

Product code: S2032

Use / description of product: STANDARD HARDENER

Company name: U-Pol Products

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: N-BUTYL ACETATE 10-30%

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

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

- XYLENE 10-30%

EINECS: 215-535-7 CAS: 1330-20-7

[-] R10; [Xn] R20/21; [Xi] R38

- 2-METHOXY-1-METHYLETHYL ACETATE 10-30%

EINECS: 203-603-9 CAS: 108-65-6

[-] R10; [Xi] R36

3. HAZARDS IDENTIFICATION

Main hazards: Flammable. Harmful by inhalation and in contact with skin. Irritating to skin.

Other hazards: 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.

[cont...]

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.

5. FIRE-FIGHTING MEASURES

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

Exposure hazards: Flammable. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

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: N-BUTYL ACETATE

TWA (8 hr exposure limit): 724 mg/m³ STEL (15 min exposure limit): 966 mg/m³ (OES)

- XYLENE

TWA (8 hr exposure limit): 220 mg/m³ STEL (15 min exposure limit): 441 mg/m³ (OES)

- 2-METHOXY-1-METHYLETHYL ACETATE

TWA (8 hr exposure limit): 274 mg/m³ STEL (15 min exposure limit): 822 mg/m³ (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: 1.0
upper: 6.6
Flash point°C: 24
Autoflammability°C: 490
Relative density: 1.0
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: 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
- 2-METHOXY-1-METHYLETHYL ACETATE
IPR MUS LD50 750 mg/kg
ORL RAT LD50 8532 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.

SAFETY DATA SHEET
2K SYSTEM 20 STANDARD HARDENER

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

14. TRANSPORT INFORMATION**ADR / RID**

UN no: 1263 **ADR Class:** 3
Packing group: III **Classification code:** F1
Shipping name: PAINT RELATED MATERIAL
Labelling: 3 **Hazard ID no:** 30

**IMDG / IMO**

UN no: 1263 **Class:** 3
Packing group: III **EmS:** F-E,S-E
Marine pollutant: . **Labelling:** 3

IATA / ICAO

UN no: 1263 **Class:** 3
Packing group: III **Packing instructions:** 309(P&CA); 310(CAO)
Labelling: 3

15. REGULATORY INFORMATION

Hazard symbols: Harmful.



Risk phrases: R10: Flammable.
R20/21: Harmful by inhalation and in contact with skin.
R38: Irritating to skin.

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

SAFETY DATA SHEET
2K SYSTEM 20 STANDARD HARDENER

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: R10: Flammable.

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.

R38: Irritating to skin.

R36: Irritating to eyes.

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.