

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: UP2301, UP2302, UP2303, UP2304, UP2305, U02306, UP2307 SYSTEM 20 FAST HARDENER

Product code: S2030

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: HARDENER CONTAINING ISOCYANATE, MIXTURE OF SOLVENTS

1.3. Details of the supplier of the safety data sheet

Company name: U-POL US Inc.
630 Selvaggio Drive
Suite 300
Nazareth
PA 18064
USA
Tel: 1-800-340-7824
Fax: 1-800-787-5150
Email: technical:u-pol.com

1.4. Emergency telephone number

Emergency tel: 1-800-424-9300 (CHEMTREC)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: F: R11; Xn: R20/21; Xi: R36/38; Sens.: R43; -: R66

Most important adverse effects: Highly flammable. Harmful by inhalation and in contact with skin. Irritating to eyes and skin. May cause sensitisation by skin contact. Repeated exposure may cause skin dryness or cracking.

Classification under CLP: This product has no classification under CLP.

2.2. Label elements

Label elements under CHIP:

Hazard symbols: Highly flammable.
Harmful.



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Risk phrases: R11: Highly flammable.
R20/21: Harmful by inhalation and in contact with skin.
R36/38: Irritating to eyes and skin.
R43: May cause sensitisation by skin contact.
R66: Repeated exposure may cause skin dryness or cracking.

Safety phrases: S23: Do not breathe vapour/spray
S36/37: Wear suitable protective clothing and gloves.
S24: Avoid contact with skin.
S42: During fumigation / spraying wear suitable respiratory equipment.

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

2.3. Other hazards

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

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

HEXAMETHYLENE DIISOCYANATE OLIGOMERS

EINECS	CAS	CHIP Classification	CLP Classification	Percent
500-060-2	28182-81-2	Xn: R20; Xi: R37; Sens.: R43	-	30-50%

XYLENE

215-535-7	1330-20-7	-: R10; Xn: R20/21; Xi: R38	Flam. Liq. 3: H226; Acute Tox. 4: H332; Acute Tox. 4: H312; Skin Irrit. 2: H315	30-50%
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ETHYL METHYL KETONE

201-159-0	78-93-3	F: R11; Xi: R36; -: R66; -: R67	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	10-30%
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Section 4: First aid measures

4.1. Description of first aid measures

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.

4.2. Most important symptoms and effects, both acute and delayed

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

Eye contact: There may be irritation and redness.

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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.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Wash the spillage site with large amounts of water. Avoid all incompatible materials in clean-up procedure - see section 10 of SDS.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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.

7.3. Specific end use(s)

Specific end use(s): No data available.

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Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

State	Respirable dust	
	8 hour TWA	15 min. STEL
UK	0.02 mg/m3	0.07 mg/m3

Respirable dust

Hazardous ingredients:

HEXAMETHYLENE DIISOCYANATE OLIGOMERS

Workplace exposure limits:

State	Respirable dust	
	8 hour TWA	15 min. STEL
UK	0.02 - 0.07 mg/m3	-

Respirable dust

XYLENE

UK	220 mg/m3	441 mg/m3	-	-
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ETHYL METHYL KETONE

UK	600 mg/m3	899 mg/m3	-	-
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8.2. Exposure controls

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.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Aromatic

Evaporation rate: Moderate

Solubility in water: Insoluble

Also soluble in: Most organic solvents.

Viscosity: Viscous

Kinematic viscosity: 100 cps

Boiling point/range°C: 79

upper: 7.0

Autoflammability°C: 535

VOC g/l: 585 (4.92 lbs/gal)

Flammability limits %: lower: 1.20

Flash point°C: -9

Relative density: 1.0

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9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Materials to avoid: Acids. Bases. Oxidising agents. Amines.

10.6. Hazardous decomposition products

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

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	INH DRM	Hazardous: calculated
Irritation	OPT DRM	Hazardous: calculated
Sensitisation	DRM	Hazardous: calculated

Symptoms / routes of exposure

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.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: Not applicable.

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12.2. Persistence and degradability

Persistence and degradability: Not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: Insoluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: Very toxic to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Incineration on land.

Recovery operations: Use principally as a fuel or other means to generate energy.

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.

Section 14: Transport information

14.1. UN number

UN number: UN1263

14.2. UN proper shipping name

Shipping name: PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: D/E

Transport category: 2

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Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

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.

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

Phrases used in s.2 and 3: EUH066: Repeated exposure may cause skin dryness or cracking.

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H336: May cause drowsiness or dizziness.

R10: Flammable.

R11: Highly flammable.

R20/21: Harmful by inhalation and in contact with skin.

R20: Harmful by inhalation.

R36/38: Irritating to eyes and skin.

R36: Irritating to eyes.

R37: Irritating to respiratory system.

R38: Irritating to skin.

R43: May cause sensitisation by skin contact.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive

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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.