

Safety Data Sheet S2032-US - UP2323

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 08/10/2015 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Product name : S2032-US - UP2323
Product group : 2K Hardener

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

1.3. Details of the supplier of the safety data sheet

U-POL US Inc 108 Commerce Way Stockertown PA 18083 - USA

T 1-800-340-7824 - F 1-800-787-5150

technical.department@u-pol.com - www.u-pol.com

1.4. Emergency telephone number

Emergency number : CHEMTREC - 1-800-424-9300 (UK +44 (0) 1933 230310 (07:30 - 17:00hrs UK time))

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 3 H226 Skin Irrit. 2 H315 Skin Sens. 1 H317 STOT SE 3 H335 STOT SE 3 H336 STOT RE 2 H373

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)





02 GHS07

GHS08

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H226 - Flammable liquid and vapor

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking

P261 - Avoid breathing fume, spray, vapors P264 - Wash hands thoroughly after handling

P280 - Wear face protection, protective clothing, protective gloves

P302+P352 - If on skin: Wash with plenty of water P312 - Call a POISON CENTER if you feel unwell

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

Not applicable

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
HEXAMETHYLENE DIISOCYANATE OLIGOMERS	(CAS No) 28182-81-2	< 43	Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 STOT SE 3, H335
n-butyl acetate	(CAS No) 123-86-4	< 23	Flam. Liq. 3, H226 STOT SE 3, H336
xylene	(CAS No) 1330-20-7	5 - 23	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315
ethylbenzene	(CAS No) 100-41-4	5 - 23	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304
Solvent naphtha (petroleum), light arom.,		< 5	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a

POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash

with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Repeated exposure may cause skin dryness or cracking.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries : Causes damage to organs.

Symptoms/injuries after inhalation : May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or

dizziness.

Symptoms/injuries after skin contact : Causes skin irritation.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Water. Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapor.

Explosion hazard : May form flammable/explosive vapor-air mixture.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures

: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No

smoking.

6.1.1. For non-emergency personnel

Protective equipment : Protective clothing. Safety glasses. Gloves.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing Smokes, spray, vapors.

Emergency procedures : Ventilate area.

Environmental precautions 6.2.

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

For containment : Contain leaking substance. Collect spillage.

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect Methods for cleaning up

spillage. Store away from other materials.

6.4. Reference to other sections

For further information refer to section 13. See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling 7.1.

Additional hazards when processed

Precautions for safe handling

: Handle empty containers with care because residual vapors are flammable.

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing fume, spray, vapors. Use only outdoors or in a

well-ventilated area.

Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out Hygiene measures

of the workplace. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment. Use explosion-proof electrical, Lighting equipment

equipment.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep away from

heat, hot surfaces, sparks, open flames and other ignition sources. No smoking, Ignition

sources, Heat sources. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight. Heat sources.

Storage temperature

Storage area Store in well ventilated area. : Keep only in original container. Special rules on packaging

Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

S2032-US - UP2323		
ACGIH	Not applicable	
OSHA	Not applicable	
n-butyl acetate (123-86-4)		
ACGIH	ACGIH TWA (ppm)	150 ppm
ACGIH	ACGIH STEL (ppm)	200 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr
OSHA	OSHA PEL (TWA) (mg/m³)	710 mg/m³

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n-butyl acetate (123-86-4)				
OSHA	OSHA PEL (TWA) (ppm)	150 ppm		
ethylbenzene (100	-41-4)			
ACGIH	ACGIH TWA (ppm)	20 ppm		
ACGIH	Remark (ACGIH)	URT irr; kidney dam (nephropathy)		
OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m³		
OSHA	OSHA PEL (TWA) (ppm)	100 ppm		
xylene (1330-20-7)				
ACGIH	ACGIH TWA (ppm)	100 ppm		
ACGIH	ACGIH STEL (ppm)	150 ppm		
ACGIH	Remark (ACGIH)	URT & eye irr; CNS impair		
OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m³		
OSHA	OSHA PEL (TWA) (ppm)	100 ppm		
HEXAMETHYLENE	E DIISOCYANATE OLIGOMERS (28182-81-2)			
ACGIH	Not applicable			
OSHA	Not applicable	Not applicable		
Solvent naphtha (petroleum), light arom.,				
ACGIH	Not applicable	Not applicable		
OSHA	Not applicable	Not applicable		

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure. Gas mask. Gloves. Protective clothing. Safety glasses.









Materials for protective clothing : Impermeable clothing. Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.
Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Air-fed respiratory protective equipment should be worn when this product is sprayed. Where

exposure through inhalation may occur from use, respiratory protection equipment is

recommended.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: LiquidAppearance: Liquid.Color: ColorlessOdor: aromatic

Odor threshold : No data available pH : No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available Freezing point : No data available : No data available

Boiling point : > 35 °C Flash point : 30 °C

Auto-ignition temperature : No data available

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Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : No data available Specific gravity / density : 0.98 - 1 g/cm³

Solubility : insoluble in water, soluble in most organic solvents.

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosion limits : No data available

9.2. Other information

 VOC content - Actual
 : 634 g/l

 VOC content
 : 634 g/l

 VOC content - Regulatory
 : 634 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

ethylbenzene (100-41-4)		
ATE US (gases)	4500.000 ppmV/4h	
ATE US (vapors)	11.000 mg/l/4h	
ATE US (dust, mist)	1.500 mg/l/4h	
xylene (1330-20-7)		
ATE US (dermal)	1100.000 mg/kg body weight	
ATE US (dust, mist)	1.500 mg/l/4h	
HEXAMETHYLENE DIISOCYANATE OLIGOMERS (28182-81-2)		
ATE US (gases)	4500.000 ppmV/4h	
ATE US (vapors)	11.000 mg/l/4h	
ATE US (dust, mist)	1.500 mg/l/4h	

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : May cause an allergic skin reaction.

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Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

 ethylbenzene (100-41-4)

 IARC group
 2B - Possibly carcinogenic to humans

 xylene (1330-20-7)

 IARC group
 3 - Not classifiable

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : May cause respiratory irritation. May cause drowsiness or dizziness.

Specific target organ toxicity (repeated

exposure)

: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or

dizziness.

Symptoms/injuries after skin contact : Causes skin irritation.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

S2032-US - UP2323	
Persistence and degradability	Not established.

Solvent naphtha (petroleum), light arom., Persistence and degradability May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

S2032-US - UP2323	
Bioaccumulative potential	Not established.

Solvent naphtha (petroleum), light arom., Bioaccumulative potential Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to Remove waste in accordance with local and/or national regulations.

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Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Transport hazard class(es) (DOT)

Transport document description : UN1263 Paint related material (including paint thinning, drying, removing, or reducing

compound), 3, III

UN-No.(DOT) : UN1263

Proper Shipping Name (DOT) : Paint related material

including paint thinning, drying, removing, or reducing compound : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid

3

Packing group (DOT) : III - Minor Danger

DOT Special Provisions (49 CFR 172.102)

: B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a

flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.

B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T2 - 1.5 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the

MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 173
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Quantity Limitations Passenger aircraft/rail : 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

Additional information

Other information : No supplementary information available.

ADR

Transport document description : UN 1263 PAINT RELATED MATERIAL, 3, III, (D/E)

Packing group (ADR) : III

Class (ADR) : 3 - Flammable liquid

Hazard identification number (Kemler No.) : 30
Classification code (ADR) : F1

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: 3 - Flammable liquids Hazard labels (ADR)

Orange plates

30 **263**

: D/E Tunnel restriction code (ADR) : 51 Excepted quantities (ADR) : E1

Transport by sea

UN-No. (IMDG) : 1263

Proper Shipping Name (IMDG) : PAINT RELATED MATERIAL

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : III - substances presenting low danger

Air transport

UN-No. (IATA) : 1263 Proper Shipping Name (IATA) : Paint

Class (IATA) : 3 - Flammable Liquids : III - Minor Danger Packing group (IATA)

SECTION 15: Regulatory information

15.1. US Federal regulations

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

ethylbenzene	CAS No 100-41-4	5 - 23
xylene	CAS No 1330-20-7	5 - 23
hexamethylene-di-isocyanate	CAS No 822-06-0	< 5

n-butyl acetate (123-86-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporing requirements of the United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's 5000 lb List of Lists)

ethylbenzene (100-41-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's 1000 lb List of Lists)

xylene (1330-20-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Subject to reporting requirements of United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's

List of Lists)

100 lb

HEXAMETHYLENE DIISOCYANATE OLIGOMERS (28182-81-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Solvent naphtha (petroleum), light arom.,

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

S2032-US - UP2323	
WHMIS Classification	Class B Division 2 - Flammable Liquid

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EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3 H226 Skin Irrit. 2 H315 Skin Sens. 1 H317 STOT SE 3 H335 STOT SE 3 H336

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

15.2.2. National regulations

ethylbenzene (100-41-4)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

ethylbenzene (100-41-4)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
Yes	No	No	No	54

SECTION 16: Other information

Other information : None.

Full text of H-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4	
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2	
Asp. Tox. 1	Aspiration hazard Category 1	
Carc. 2	Carcinogenicity Category 2	
Flam. Liq. 2	Flammable liquids Category 2	
Flam. Liq. 3	Flammable liquids Category 3	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
Skin Sens. 1	Skin sensitization Category 1	
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H225	Highly flammable liquid and vapor	
H226	Flammable liquid and vapor	
H304	May be fatal if swallowed and enters airways	
H312	Harmful in contact with skin	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H332	Harmful if inhaled	
H335	May cause respiratory irritation	
H336	May cause drowsiness or dizziness	
H351	Suspected of causing cancer	
H373	May cause damage to organs through prolonged or repeated	
	exposure	
H411	Toxic to aquatic life with long lasting effects	

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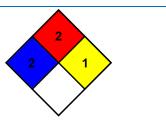
NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA fire hazard : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with

some release of energy, but not violently.



SDS US UPOL

NFPA reactivity

For professional use only.

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