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

<table>
<thead>
<tr>
<th>1.1. Product identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product form           : Mixture</td>
</tr>
<tr>
<td>Product name           : RLHV-US - UP0827</td>
</tr>
<tr>
<td>Product group          : 2K Hardener</td>
</tr>
</tbody>
</table>

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. 2 H225
- Skin Irrit. 2 H315
- Eye Irrit. 2A H319
- Skin Sens. 1 H317
- STOT SE 3 H336
- STOT SE 3 H355
- STOT RE 2 H373

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) : ![GHS02](image1), ![GHS07](image2), ![GHS08](image3)

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : 
- H225 - Highly flammable liquid and vapor
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- 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
- P280 - Wear face protection, protective clothing, protective gloves
- P302+P352 - If on skin: Wash with plenty of water
- P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P312 - Call a POISON CENTER if you feel unwell

2.3. Other hazards

No additional information available
**SECTION 3: Composition/information on ingredients**

### 3.1. Substance
Not applicable

### 3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEXAMETHYLENE DIISOCYANATE OLIGOMERS</td>
<td>(CAS No) 28182-81-2</td>
<td>&lt; 43</td>
<td>Acute Tox. 4 (Inhalation), H332&lt;br&gt;Skin Sens. 1, H317&lt;br&gt;STOT SE 3, H335</td>
</tr>
<tr>
<td>methyl acetate</td>
<td>(CAS No) 79-20-9</td>
<td>23 - 43</td>
<td>Flam. Liq. 2, H225&lt;br&gt;Eye Irr. 2A, H319&lt;br&gt;STOT SE 3, H336</td>
</tr>
<tr>
<td>4-CHLORO BENZOTRIFLUORIDE</td>
<td>(CAS No) 98-56-6</td>
<td>5 - 23</td>
<td>Flam. Liq. 3, H226&lt;br&gt;Skin Irrit. 2, H315&lt;br&gt;Eye Irr. 2A, H319&lt;br&gt;STOT SE 3, H335</td>
</tr>
<tr>
<td>xylene</td>
<td>(CAS No) 1330-20-7</td>
<td>5 - 23</td>
<td>Flam. Liq. 3, H226&lt;br&gt;Acute Tox. 4 (Dermal), H312&lt;br&gt;Acute Tox. 4 (Inhalation:dust,mist), H332&lt;br&gt;Skin Irrit. 2, H315</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom.,</td>
<td></td>
<td>&lt; 5</td>
<td>Flam. Liq. 3, H226&lt;br&gt;STOT SE 3, H336&lt;br&gt;STOT SE 3, H335&lt;br&gt;Asp. Tox. 1, H304&lt;br&gt;Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>(CAS No) 100-41-4</td>
<td>&lt; 5</td>
<td>Flam. Liq. 2, H225&lt;br&gt;Acute Tox. 4 (Inhalation), H332&lt;br&gt;Garc. 2, H351&lt;br&gt;STOT RE 2, H373&lt;br&gt;Asp. Tox. 1, H304</td>
</tr>
</tbody>
</table>

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**: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: 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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Get medical advice/attention.

**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**: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Causes skin irritation.
- **Symptoms/injuries after eye contact**: Causes serious eye 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

- **Unsuitable extinguishing media**: Do not use a heavy water stream.
5.2. Special hazards arising from the substance or mixture

Fire hazard: Highly 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.

SECTION 6: Accidental release measures

6.1. 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


Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

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

Emergency procedures: Ventilate area.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For containment: Contain released substance, pump into suitable containers. Collect spillage.

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling: 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. Use only non-sparking tools. Avoid breathing spray, vapors. Use only outdoors or in a well-ventilated area.

Hygiene measures: Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. 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: Ignition sources, Heat sources, Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep in fireproof place. Keep container tightly closed.

Incompatible products: Strong bases. Strong acids.

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

Storage temperature: < 25 °C

Storage area: Store in a well-ventilated place.

Special rules on packaging: Keep only in original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

RLHV-US - UP0827

ACGIH: Not applicable
**RLHV-US - UP0827**  
Safety Data Sheet

**methyl acetate (79-20-9)**

<table>
<thead>
<tr>
<th>Source</th>
<th>ACGIH TWA (ppm)</th>
<th>ACGIH STEL (ppm)</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
<th>OSHA PEL (TWA) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>200 ppm</td>
<td>250 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA</td>
<td></td>
<td></td>
<td>610 mg/m³</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

**4-CHLORO BENZOTRIFLUORIDE (98-56-6)**

<table>
<thead>
<tr>
<th>Source</th>
<th>ACGIH TWA (ppm)</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
<th>OSHA PEL (TWA) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ethylbenzene (100-41-4)**

<table>
<thead>
<tr>
<th>Source</th>
<th>ACGIH TWA (ppm)</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
<th>OSHA PEL (TWA) (ppm)</th>
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</thead>
<tbody>
<tr>
<td>ACGIH</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA</td>
<td></td>
<td></td>
<td>435 mg/m³</td>
</tr>
</tbody>
</table>

**xylene (1330-20-7)**

<table>
<thead>
<tr>
<th>Source</th>
<th>ACGIH TWA (ppm)</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
<th>OSHA PEL (TWA) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>100 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
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<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td>150 ppm</td>
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<tr>
<td>ACGIH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA</td>
<td></td>
<td></td>
<td>435 mg/m³</td>
</tr>
</tbody>
</table>

**Solvent naphtha (petroleum), light arom.**

<table>
<thead>
<tr>
<th>Source</th>
<th>ACGIH TWA (ppm)</th>
<th>OSHA PEL (TWA) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>OSHA</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

**HEXAMETHYLENE DIISOCYANATE OLIGOMERS (28182-81-2)**

<table>
<thead>
<tr>
<th>Source</th>
<th>ACGIH TWA (ppm)</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
<th>OSHA PEL (TWA) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA</td>
<td>Not applicable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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:**
- Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Air-fed respiratory protective equipment should be worn when this product is sprayed.

**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:**
- Liquid

**Appearance:**
- Liquid.
RLHV-US - UP0827
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Color: Colorless
Odor: 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
Boiling point: > 35 °C
Flash point: < 0 °C
Auto-ignition temperature: No data available
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: 1.04 - 1.06
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: 128 g/l
VOC content: 651 g/l
VOC content - Regulatory: 255 g/l

SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available

10.2. Chemical stability
Highly 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.

10.5. Incompatible materials
Strong acids. Strong bases.

10.6. Hazardous decomposition products

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
**RLHV-US - UP0827**

**Safety Data Sheet**

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>IARC group</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene (1330-20-7)</td>
<td>3</td>
<td>Not classifiable</td>
</tr>
<tr>
<td>ethylbenzene (100-41-4)</td>
<td>2B</td>
<td>Possibly carcinogenic to humans</td>
</tr>
</tbody>
</table>

**ATE US (dermal)**
- 1100.000 mg/kg body weight
- 1.500 mg/l/4h

**ATE US (dust, mist)**
- 1100.000 mg/kg body weight
- 1.500 mg/l/4h

**Xylenes (1330-20-7)**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Hazard Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene (1330-20-7)</td>
<td>Skin corrosion/irritation</td>
</tr>
<tr>
<td></td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td></td>
<td>Serious eye damage/irritation</td>
</tr>
<tr>
<td></td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td></td>
<td>Respiratory or skin sensitization</td>
</tr>
<tr>
<td></td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td></td>
<td>Germ cell mutagenicity</td>
</tr>
<tr>
<td></td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>Based on available data, the classification criteria are not met</td>
</tr>
<tr>
<td></td>
<td>Carcinogenicity</td>
</tr>
<tr>
<td></td>
<td>Not classified</td>
</tr>
<tr>
<td>ethylbenzene (100-41-4)</td>
<td>Carcinogenicity</td>
</tr>
<tr>
<td></td>
<td>2B - Possibly carcinogenic to humans</td>
</tr>
<tr>
<td>xylene (1330-20-7)</td>
<td>Carcinogenicity</td>
</tr>
<tr>
<td></td>
<td>Not classified</td>
</tr>
</tbody>
</table>

**ATE US (gases)**
- 4500.000 ppmV/4h

**ATE US (vapors)**
- 11.000 mg/l/4h

**ATE US (dust, mist)**
- 1.500 mg/l/4h

**HEXAMETHYLENE DIISOCYANATE OLIGOMERS (28182-81-2)**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Hazard Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE US (gases)</td>
<td>Skin corrosion/irritation</td>
</tr>
<tr>
<td></td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td></td>
<td>Serious eye damage/irritation</td>
</tr>
<tr>
<td></td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td></td>
<td>Respiratory or skin sensitization</td>
</tr>
<tr>
<td></td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td></td>
<td>Germ cell mutagenicity</td>
</tr>
<tr>
<td></td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>Based on available data, the classification criteria are not met</td>
</tr>
<tr>
<td></td>
<td>Carcinogenicity</td>
</tr>
<tr>
<td></td>
<td>Not classified</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**
- Causes skin irritation.

**Serious eye damage/irritation**
- Causes serious eye irritation.

**Respiratory or skin sensitization**
- May cause an allergic skin reaction.

**Germ cell mutagenicity**
- Not classified

**Carcinogenicity**
- Not classified

**ETHYL BENOZENE (100-41-4)**

<table>
<thead>
<tr>
<th>Substance</th>
<th>IARC group</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylbenzene (100-41-4)</td>
<td>2B</td>
<td>Possibly carcinogenic to humans</td>
</tr>
<tr>
<td>xylene (1330-20-7)</td>
<td>3</td>
<td>Not classifiable</td>
</tr>
</tbody>
</table>

**ATE US (gases)**
- 4500.000 ppmV/4h

**ATE US (vapors)**
- 11.000 mg/l/4h

**ATE US (dust, mist)**
- 1.500 mg/l/4h

**ATE US (gases)**
- 4500.000 ppmV/4h

**ATE US (vapors)**
- 11.000 mg/l/4h

**ATE US (dust, mist)**
- 1.500 mg/l/4h

**SECTION 12: Ecological information**

**12.1. Toxicity**

No additional information available

**12.2. Persistence and degradability**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

**12.3. Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

**12.4. Mobility in soil**

No additional information available
12.5. Other adverse effects

Effect on ozone layer: No known ecological damage caused by this product.

Effect on the global warming: 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 Dispose in a safe manner in accordance with local/national regulations.

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 document description: UN1263 Paint related material (including paint thinning, drying, removing, or reducing compound), 3, II

UN-No.(DOT): UN1263

Proper Shipping Name (DOT): Paint related material

including paint thinning, drying, removing, or reducing compound

Transport hazard class(es) (DOT): 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT): 3 - Flammable liquid

Packing group (DOT): II - Medium Danger

DOT Special Provisions (49 CFR 172.102): 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons).

BS2 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50°C (11 bar at 122°F), or 130 kPa at 55°C (1.3 bar at 131°F) are authorized.

T4 - 2.65 178.274(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 + α (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.

TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0°C (32°F).

TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, 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 (49 CFR 173.27): 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 60 L

DOT Vessel Stowage Location: B - (i) The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) “On deck only” on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Additional information

Other information: No supplementary information available.

ADR

Transport document description: UN 1263 PAINT RELATED MATERIAL, 3, II, (D/E)
Packing group (ADR): II
Class (ADR): 3 - Flammable liquid
Hazard identification number (Kemler No.): 33
Classification code (ADR): F1
Hazard labels (ADR): 3 - Flammable liquids

Orange plates:

Tunnel restriction code (ADR): D/E
LQ: 5l
Excepted quantities (ADR): E2

Transport by sea

UN-No. (IMDG): 1263
Proper Shipping Name (IMDG): PAINT RELATED MATERIAL
Class (IMDG): 3 - Flammable liquids
Packing group (IMDG): II - substances presenting medium danger

Air transport

UN-No. (IATA): 1263
Proper Shipping Name (IATA): Paint
Class (IATA): 3 - Flammable Liquids
Packing group (IATA): II - Medium Danger

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.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS No</th>
<th>Reporting Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>5 - 23</td>
</tr>
<tr>
<td>hexamethylene-di-isocyanate</td>
<td>822-06-0</td>
<td>&lt; 5</td>
</tr>
</tbody>
</table>

methyl acetate (79-20-9)

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

4-CHLORO BENZOTRIFLUORIDE (98-56-6)

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

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 List of Lists) 1000 lb

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
Solvent naphtha (petroleum), light arom.,
Not listed on the United States TSCA (Toxic Substances Control Act) inventory

HEXAMETHYLENE DIISOCYANATE OLIGOMERS (28182-81-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA
No additional information available

EU-Regulations
No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Flam. Liq. 2 H225
Skin Irrit. 2 H315
Eye Irrit. 2 H319
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. 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)

<table>
<thead>
<tr>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>Non-significant risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>54</td>
</tr>
</tbody>
</table>

SECTION 16: Other information

Other information : None.
RLHV-US - UP0827
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H-Phrase</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Dermal)</td>
<td>Acute toxicity (dermal) Category 4</td>
</tr>
<tr>
<td>Acute Tox. 4 (Inhalation)</td>
<td>Acute toxicity (inhalation) Category 4</td>
</tr>
<tr>
<td>Acute Tox. 4 (Inhalation:dust,mist)</td>
<td>Acute toxicity (inhalation:dust,mist) Category 4</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 2</td>
</tr>
<tr>
<td>Asp. Tox. 1</td>
<td>Aspiration hazard Category 1</td>
</tr>
<tr>
<td>Carc. 2</td>
<td>Carcinogenicity Category 2</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>Flam. Liq. 2</td>
<td>Flammable liquids Category 2</td>
</tr>
<tr>
<td>Flam. Liq. 3</td>
<td>Flammable liquids Category 3</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Skin sensitization Category 1</td>
</tr>
<tr>
<td>STOT RE 2</td>
<td>Specific target organ toxicity (repeated exposure) Category 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapor</td>
</tr>
<tr>
<td>H226</td>
<td>Flammable liquid and vapor</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H351</td>
<td>Suspected of causing cancer</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

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.

NFPA reactivity : 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

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