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

1.1. Product identifier

Product form: Mixture
Product name: RAPID SYSTEM REDUCER (RAPIDT-US)
Product group: Thinner
Other means of identification: UP6701

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

Supplier
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
Acute Tox. 4 (Inhalation: vapour) H332
Skin Irrit. 2 H315
Eye Irrit. 2 H319
Carc. 2 H351
STOT SE 3 H335
STOT RE 2 H373
Full text of H statements: see section 16

2.2. Label elements

GHS-US labeling
Hazard pictograms (GHS-US): [Diagrams of hazard pictograms]

Signal word (GHS-US): Danger
Hazard statements (GHS-US): H225 - Highly flammable liquid and vapor
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer
H373 - May cause damage to organs (hearing organs) through prolonged or repeated exposure (Inhalation)

Precautionary statements (GHS-US): P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P261 - Avoid breathing fume, spray, vapors
P280 - Wear eye protection, protective clothing, protective gloves
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P305 - IF IN EYES: Rinse first with plenty of water and if necessary take medical advice

06/06/2017 EN (English US) SDS ID: RAPIDT-US
RAPID SYSTEM REDUCER (RAPIDT-US)
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P312 - Call a POISON CENTER if you feel unwell

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-methylpentan-2-one, isobutyl methyl ketone</td>
<td>(CAS No) 108-10-1</td>
<td>43-63</td>
<td>Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319 STOT SE 3, H335</td>
</tr>
<tr>
<td>xylene</td>
<td>(CAS No) 1330-20-7</td>
<td>23-43</td>
<td>Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>(CAS No) 100-41-4</td>
<td>5-23</td>
<td>Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Care. 2, H351 STOT RE 2, H373 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: IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact: Rinse eyes with water as a precaution.
First-aid measures after ingestion: Call a poison center/doctor/physician if you feel unwell.

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

Symptoms/effects after inhalation: May cause respiratory irritation.
Symptoms/effects after skin contact: Irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media


5.2. Special hazards arising from the substance or mixture

Fire hazard: Highly flammable liquid and vapor.
Reactivity: Highly flammable liquid and vapor.

5.3. Advice for firefighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe vapors, fume. Avoid contact with skin and eyes.
6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: “Exposure controls/personal protection”.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

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

Methods for cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapors, fume. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

Hygiene measures: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Ground/bond container and receiving equipment.

Storage conditions: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Storage temperature: < 25 °C

Storage area: Keep container 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

<table>
<thead>
<tr>
<th>RAPID SYSTEM REDUCER (RAPIDT-US)</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACYGIH</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)

<table>
<thead>
<tr>
<th>ACGIH</th>
<th>TWA (ppm)</th>
<th>STEL (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>20 ppm</td>
<td></td>
</tr>
</tbody>
</table>

Remark (ACGIH): URT irr; dizziness; headache

OSHA PEL (TWA) (mg/m³) 410 mg/m³

OSHA PEL (TWA) (ppm) 100 ppm

ethylbenzene (100-41-4)

<table>
<thead>
<tr>
<th>ACGIH</th>
<th>TWA (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>20 ppm</td>
</tr>
</tbody>
</table>

Remark (ACGIH): URT irr; kidney dam (nephropathy)

OSHA PEL (TWA) (mg/m³) 435 mg/m³

OSHA PEL (TWA) (ppm) 100 ppm

xylene (1330-20-7)

<table>
<thead>
<tr>
<th>ACGIH</th>
<th>TWA (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

ACGIH STEL (ppm) 150 ppm
RAPID SYSTEM REDUCER (RAPIDT-US)

Safety Data Sheet

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

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

<table>
<thead>
<tr>
<th>ACGIH</th>
<th>Remark (ACGIH)</th>
<th>URT &amp; eye irr; CNS impair</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>435 mg/m³</td>
</tr>
<tr>
<td>OSHA</td>
<td>OSHA PEL (TWA) (ppm)</td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

### 8.2. Exposure controls

- **Appropriate engineering controls**: Ensure good ventilation of the work station.
- **Personal protective equipment**: Gloves. Protective clothing. Safety glasses.
- **Materials for protective clothing**: Impermeable clothing.
- **Hand protection**: Protective gloves.
- **Eye protection**: 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. Wear respiratory protection.
- **Environmental exposure controls**: Avoid release to the environment.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

- **Physical state**: Liquid
- **Appearance**: Liquid.
- **Color**: Colourless.
- **Odor**: aromatic
- **Odor threshold**: No data available
- **pH**: No data available
- **Relative evaporation rate (butyl acetate=1)**: No data available
- **Melting point**: Not applicable
- **Freezing point**: No data available
- **Boiling point**: > 35 °C
- **Flash point**: 20 °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**: 0.85 - 0.87
- **Solubility**: Miscible with water.
- **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**: 864 g/l
- **VOC content**: 864 g/l
- **VOC content - Regulatory**: 864 g/l
## SECTION 10: Stability and reactivity

### 10.1. Reactivity
Highly flammable liquid and vapor.

### 10.2. Chemical stability
Stable under normal conditions.

### 10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials
No additional information available

### 10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity**
- Inhalation: vapour: Harmful if inhaled.

<table>
<thead>
<tr>
<th>Compound</th>
<th>ATE US (vapors)</th>
<th>ATE US (gases)</th>
<th>ATE US (vapors)</th>
<th>ATE US (dust, mist)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rapid System Reducer (RAPIDT-US)</td>
<td>11 mg/l/4h</td>
<td>4500 ppmV/4h</td>
<td>11 mg/l/4h</td>
<td>1.5 mg/l/4h</td>
</tr>
<tr>
<td>4-methylpentan-2-one, isobutyl methyl ketone (108-10-1)</td>
<td></td>
<td></td>
<td>11 mg/l/4h</td>
<td>1.5 mg/l/4h</td>
</tr>
<tr>
<td>Ethylbenzene (100-41-4)</td>
<td></td>
<td></td>
<td>4500 ppmV/4h</td>
<td>11 mg/l/4h</td>
</tr>
<tr>
<td>Xylene (1330-20-7)</td>
<td></td>
<td></td>
<td>1100 mg/kg body weight</td>
<td>1.5 mg/l/4h</td>
</tr>
</tbody>
</table>

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

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

**Respiratory or skin sensitization**: Not classified

**Germ cell mutagenicity**: Not classified

**Carcinogenicity**
- 4-methylpentan-2-one, isobutyl methyl ketone (108-10-1): IARC group 2B - Possibly carcinogenic to humans
- Ethylbenzene (100-41-4): IARC group 2B - Possibly carcinogenic to humans
- Xylene (1330-20-7): IARC group 3 - Not classifiable

**Specific target organ toxicity – single exposure**: May cause respiratory irritation.

**Specific target organ toxicity – repeated exposure**: May cause damage to organs (hearing organs) through prolonged or repeated exposure (inhalation).

**Aspiration hazard**: Not classified

**Symptoms/effects after inhalation**: May cause respiratory irritation.

**Symptoms/effects after skin contact**: Irritation.
SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer: No additional information available

Effect on the global warming: No known effects from this product.

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.

Additional information: Flammable vapors may accumulate in the container.

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

Class (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).

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

IB2 - Authorized BCs: 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 (1.1 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 + 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.

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
# RAPID SYSTEM REDUCER (RAPIDT-US)

## Safety Data Sheet

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

<table>
<thead>
<tr>
<th>DOT Packaging Bulk (49 CFR 173.xxx)</th>
<th>242</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)</td>
<td>5 L</td>
</tr>
<tr>
<td>DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)</td>
<td>60 L</td>
</tr>
<tr>
<td>DOT Vessel Storage Location</td>
<td>B</td>
</tr>
</tbody>
</table>

### Additional information

**Emergency Response Guide (ERG) Number**: 128

**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**: 33

**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>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>isobutyl methyl ketone</td>
<td>108-10-1</td>
<td>43 - 63%</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>5 - 23%</td>
</tr>
<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>23 - 43%</td>
</tr>
</tbody>
</table>

**isobutyl methyl ketone (108-10-1)**

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

Subject to reporting requirements of United States SARA Section 313

**CERCLA RQ**: 5000 lb
RAPID SYSTEM REDUCER (RAPIDT-US)

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

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
Acute Tox. 4 (Inhalation: vapour) H332
Skin Irrit. 2 H315
Eye Irrit. 2 H319
STOT SE 3 H335
Full text of hazard classes and H-statements: see section 16

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

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, developmental and/or reproductive harm

isobutyl methyl ketone (108-10-1)
Listed on IARC (International Agency for Research on Cancer)

ethylbenzene (100-41-4)
Listed on IARC (International Agency for Research on Cancer)

15.4. Other information

Revision date: 02/22/2017

isobutyl methyl ketone (108-10-1)

<table>
<thead>
<tr>
<th></th>
<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>No significant risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No significant risk level (NSRL)</td>
</tr>
</tbody>
</table>
| ethylbenzene (100-41-4)

<table>
<thead>
<tr>
<th></th>
<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>No significant risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>54</td>
</tr>
</tbody>
</table>
Full text of H-phrases:

<table>
<thead>
<tr>
<th>H225</th>
<th>Highly flammable liquid and vapor</th>
</tr>
</thead>
<tbody>
<tr>
<td>H226</td>
<td>Flammable liquid and vapor</td>
</tr>
<tr>
<td>H204</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>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>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>
</tbody>
</table>

NFPA health hazard: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

NFPA reactivity: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.

SDS US UPOL

For professional use only.

The information contained within this Safety Data Sheet (SDS) is believed to be correct as of the date issued however it is subject to change from time to time. It does not purport to be all inclusive or exhaustive and shall only be used as a guide. U-POL makes no warranties, expressed or implied, including but not limited to, any implied warranty of fitness for a given purpose or usage. It is the Buyers responsibility to ensure the suitability of the products for their own use and to check the information is up to date. U-POL cannot be held responsible for the suitability of use for any of its products, considering the wide range of factors such as application, substrates and handling methods. Since these conditions of use are outside of our control, the company shall not be held liable for any damage resulting from handling or from contact with the product detailed. Moreover, addition of reducers, hardeners or other additives over and above U-POL's recommendations for use, may substantially alter the composition and hazards of the product. U-POL data sheets are available via the U-POL website at WWW.U-POL.COM.