Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier
Product Code RSP RH4201
Product Name Urethane Activator/Hardener

Other means of identification
No information available

Recommended use of the chemical and restrictions on use
Hardener, Coatings

Details of the supplier of the safety data sheet
See section 16 for more information

Ellis Paint Company / Restoration Shop
3150 E. Pico Blvd.
Los Angeles , CA 90023-3683

CUSTOMER SERVICE (800) 672-4900

CHEMTREC (800) 424-9300

Section 2: HAZARDS IDENTIFICATION

Classification

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Flammable liquids</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

Label elements
Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexamethylene diisocyanate homopolymer</td>
<td>28182-81-2</td>
<td>50 - 70</td>
</tr>
<tr>
<td>Methyl ethyl ketone</td>
<td>78-93-3</td>
<td>25 - 50</td>
</tr>
</tbody>
</table>

Signal word DANGER

HAZARD STATEMENTS
Highly flammable liquid and vapor
Causes serious eye irritation
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May cause cancer
May cause drowsiness or dizziness

PREVENTION
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Wash face, hands and any exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

RESPONSE
IF exposed or concerned: Get medical advice/attention.
Eyes
IF IN EYES: 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.
Skin
If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Inhalation
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Ingestion
Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Fire
In case of fire: Use CO2, dry chemical, or foam for extinction.

STORAGE

DISPOSAL
Dispose of contents/containers in accordance with local regulations.

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)
Not applicable.

OTHER HAZARDS
Causes mild skin irritation. Harmful to aquatic life with long lasting effects.

UNKNOWN ACUTE TOXICITY
0% of the mixture consists of ingredient(s) of unknown toxicity.
### Section 4: FIRST AID MEASURES

**First Aid Measures**

**General advice**

IF exposed or concerned: Get medical advice/attention.

**Eye contact**

IF IN EYES: 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.

**Skin Contact**

If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF ON SKIN (or hair):
Take off immediately all contaminated clothing. Rinse skin with water/shower.

**Inhalation**

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**Ingestion**

Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

**Symptoms**

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

### Section 5: FIRE FIGHTING MEASURES

**Suitable extinguishing media**

Dry chemical, CO2, water spray or alcohol-resistant foam.

**Not to be used for safety reasons:**

Strong water jet

**Specific hazards arising from the chemical**

Burning produces heavy smoke. Fire may produce irritating and/or toxic gases. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation. May cause sensitization by skin contact.

**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from fire-fighting to enter drains or water courses.

### Section 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

Avoid breathing vapors or mists. Remove all sources of ignition. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Take precautionary measures against static discharges.
For emergency responders
Use personal protection recommended in Section 8.

Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spills cannot be contained.

Methods and material for containment and cleaning up

Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Dispose of waste product or used containers according to local regulations. Clean with detergents. Avoid solvent cleaners. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Take up mechanically, placing in appropriate containers for disposal.

Section 7: HANDLING AND STORAGE

Precautions for safe handling

General advice
Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used. Examination of lung function should be carried out on a regular basis on persons spraying this product.

Advice on safe handling
Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Use personal protection recommended in Section 8. Never use pressure to empty container. Comply with the health and safety at work laws. Prevent product from entering drains. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Use only with adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

General Hygiene Considerations
When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep/store only in original container. Store in accordance with local regulations. Keep unauthorized personnel away. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed in a dry and well-ventilated place. Keep tightly closed in a dry and cool place.

Incompatible materials

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits
If S* appears in the OEL table, it indicates this chemical contains a skin notation.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl ethyl ketone</td>
<td>STEL: 300 ppm</td>
<td>TWA: 200 ppm</td>
<td>IDLH: 3000 ppm</td>
</tr>
<tr>
<td>78-93-3</td>
<td>TWA: 200 ppm</td>
<td>TWA: 590 mg/m³</td>
<td>TWA: 200 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA: 590 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STEL: 300 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STEL: 885 mg/m³</td>
</tr>
<tr>
<td>Compound</td>
<td>STEL:</td>
<td>TWA:</td>
<td>IDLH:</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>---------------</td>
<td>----------------</td>
<td>----------------</td>
</tr>
<tr>
<td>n-Butyl acetate</td>
<td>200 ppm</td>
<td>150 ppm</td>
<td>1700 ppm</td>
</tr>
<tr>
<td>123-86-4</td>
<td>TWA: 710 mg/m³</td>
<td>TWA: 150 ppm</td>
<td>TWA: 150 ppm</td>
</tr>
<tr>
<td>Benzene, 1,2,4-trimethyl-95-63-6</td>
<td>TWA: 25 ppm</td>
<td>TWA: 125 mg/m³</td>
<td>TWA: 25 ppm</td>
</tr>
<tr>
<td>Isophorone diisocyanate 4098-71-9</td>
<td>TWA: 0.005 ppm</td>
<td>TWA: 0.005 ppm</td>
<td>TWA: 0.005 ppm</td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td>TWA: 50 ppm</td>
<td>TWA: 245 mg/m³</td>
<td>IDLH: 900 ppm</td>
</tr>
<tr>
<td>Hexamethylene disocyanate 822-06-0</td>
<td>TWA: 0.005 ppm</td>
<td>Ceiling: 0.020 ppm 10 min</td>
<td>Ceiling: 0.140 mg/m³  10 min</td>
</tr>
<tr>
<td></td>
<td>TWA: 50 ppm</td>
<td>TWA: 0.035 mg/m³</td>
<td>TWA: 0.005 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 245 mg/m³</td>
<td>TWA: 0.035 mg/m³</td>
<td>TWA: 0.035 mg/m³</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**

Engineering Controls
Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

**Individual protection measures, such as personal protective equipment**

Eye/face protection
Tight sealing safety goggles.

Skin and body protection
Wear anti-static clothing made of natural fiber or of high temperature resistant synthetic fiber. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear suitable protective clothing.

Hand Protection
There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical / chemical damage and poor maintenance. Wear protective gloves.

Respiratory protection
In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Thermal Protection**
No information available

---

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

- **Physical state**: liquid
- **Appearance**: No information available
- **Odor**: Solvent
- **Color**: No information available
- **Odor Threshold**: No information available
- **pH value**: No information available
- **Melting point/freezing point**: No information available
- **Boiling point / boiling range**: 79.6 °C / 175 °F
- **flash point**: -7 °C / 19 °F
- **evaporation rate**: No information available
- **Flammability (solid, gas)**: No information available
- **Flammability Limit in Air**: No information available
### Section 10: STABILITY AND REACTIVITY

**Reactivity**  
No information available.

**Chemical stability**  
Stable under normal conditions.

**Possibility of Hazardous Reactions**  
None under normal processing.

**Hazardous polymerization**  
None under normal processing.

**Conditions to avoid**  
Heat, flames and sparks.

**Incompatible materials**  

**Hazardous Decomposition Products**  
Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

### Section 11: TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

- **Eye contact**  
  Causes serious eye irritation

- **Skin Contact**  
  May cause an allergic skin reaction

- **Ingestion**  
  Not applicable

- **Inhalation**  
  May cause drowsiness or dizziness

**Numerical measures of toxicity - Component Information**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexamethylene diisocyanate homopolymer 28182-81-2</td>
<td>-</td>
<td>-</td>
<td>= 18500 mg/m³ (Rat) 1 h</td>
</tr>
<tr>
<td>Methyl ethyl ketone 78-93-3</td>
<td>= 2483 mg/kg (Rat)</td>
<td>= 5000 mg/kg (Rabbit)</td>
<td>= 11700 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>Aliphatic isocyanate polymer</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>n-Butyl acetate 123-86-4</td>
<td>= 14.13 mg/kg (Rat)</td>
<td>&gt; 17600 mg/kg (Rabbit)</td>
<td>= 390 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>Solvent naphtha, petroleum, light aromatic 64742-95-6</td>
<td>-</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>= 3400 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>Benzene, 1,2,4-trimethyl-95-63-6</td>
<td>= 3280 mg/kg (Rat)</td>
<td>&gt; 3160 mg/kg (Rabbit)</td>
<td>= 18 g/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>Isophorone diisocyanate 4098-71-9</td>
<td>= 1097 mg/kg (Rat)</td>
<td>1060 - 4780 mg/kg (Rabbit)</td>
<td>= 0.135 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td>= 1400 mg/kg (Rat)</td>
<td>= 12300 µL/kg (Rabbit)</td>
<td>&gt; 3577 ppm (Rat) 6 h</td>
</tr>
</tbody>
</table>
Hexamethylene diisocyanate
822-06-0

= 738 mg/kg (Rat)  
= 593 mg/kg (Rabbit)  
= 0.06 mg/L (Rat) 4 h

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (inhalation-dust/mist) 51.1 mg/l
ATEmix (inhalation-vapor) 355 mg/l

UNKNOWN ACUTE TOXICITY
0% of the mixture consists of ingredient(s) of unknown toxicity.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cumene 98-82-8</td>
<td></td>
<td>Group 2B</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

IARC (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans.

OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present.

Skin corrosion/irritation Not applicable
Serious eye damage/eye irritation Causes serious eye irritation
Skin sensitization May cause an allergic skin reaction
Respiratory sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled
Germ cell mutagenicity Not applicable
Carcinogenicity May cause cancer
Reproductive Toxicity Not applicable
Specific target organ toxicity (single exposure) May cause drowsiness or dizziness
Specific target organ toxicity (repeated exposure) Not applicable
Aspiration hazard Not applicable

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity
Harmful to aquatic life with long lasting effects.

Environmental precautions Prevent product from entering drains.

Persistence and degradability No information available

Bioaccumulation No information available

Mobility No information available

Other adverse effects No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal. Empty containers must be scrapped or reconditioned.

Section 14: TRANSPORT INFORMATION
14.1 UN/ID no
DOT: UN1993
IMDG: UN1993
IATA: UN1993

14.2 Proper shipping name
Methyl ethyl ketone
n-Butyl acetate

14.3 Hazard Class
3
3
3

14.4 Packing Group
II
II
II

14.5 Environmental hazard
Not applicable

14.6 Special Provisions
IB2, TP1, TP8, TP28
Emergency Response Guide Number
128

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information available

Section 15: REGULATORY INFORMATION

International Inventories
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
All components are listed or exempt from listing

DSL - Canadian Domestic Substances List
All components are listed or exempt from listing

US Federal Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>SARA 313 - Threshold Values %</th>
<th>Hazardous air pollutants (HAPs) content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene, 1,2,4-trimethyl-95-63-6</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td>1</td>
<td>Present</td>
</tr>
<tr>
<td>0.1 - 0.3</td>
<td>1</td>
<td>Present</td>
</tr>
<tr>
<td>Hexamethylene diisocyanate</td>
<td>1</td>
<td>Present</td>
</tr>
<tr>
<td>822-06-0</td>
<td>1</td>
<td>Present</td>
</tr>
<tr>
<td>0.1 - 0.3</td>
<td>1</td>
<td>Present</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Butyl acetate</td>
<td>5000 lb</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>123-86-4</td>
<td>5000 lb</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl ethyl ketone</td>
<td>5000 lb</td>
<td></td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td>78-93-3</td>
<td>5000 lb</td>
<td></td>
<td>RQ 2270 kg final RQ</td>
</tr>
<tr>
<td>n-Butyl acetate</td>
<td>5000 lb</td>
<td></td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td>123-86-4</td>
<td>5000 lb</td>
<td></td>
<td>RQ 2270 kg final RQ</td>
</tr>
<tr>
<td>Isophorone diisocyanate</td>
<td>5000 lb</td>
<td></td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td>4098-71-9</td>
<td>5000 lb</td>
<td></td>
<td>RQ 2270 kg final RQ</td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td>5000 lb</td>
<td></td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td>Hexamethylene diisocyanate</td>
<td>5000 lb</td>
<td></td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td>822-06-0</td>
<td>5000 lb</td>
<td></td>
<td>RQ 2270 kg final RQ</td>
</tr>
</tbody>
</table>

US State Regulations

Rule 66 status of product
Photochemically reactive.

Product Code: RSP-RH4201
AGHS - USA OSHA SDS
California Proposition 65
WARNING! This product contains a chemical known in the State of California to cause cancer.

U.S. EPA Label information
EPA Pesticide registration number Not applicable

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>28182-81-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexamethylene diisocyanate homopolymer</td>
<td></td>
</tr>
<tr>
<td>Methyl ethyl ketone</td>
<td>78-93-3</td>
</tr>
<tr>
<td>Aliphatic isocyanate polymer</td>
<td></td>
</tr>
<tr>
<td>n-Butyl acetate</td>
<td>123-86-4</td>
</tr>
<tr>
<td>Solvent naphtha, petroleum, light aromatic</td>
<td>64742-95-6</td>
</tr>
<tr>
<td>Benzene, 1,2,4-trimethyl-</td>
<td>95-63-6</td>
</tr>
<tr>
<td>Cumene</td>
<td>98-82-8</td>
</tr>
</tbody>
</table>

Section 16: OTHER INFORMATION

HMIS
Health hazards 2*
  * = Chronic Health Hazard
Flammability 3
Physical hazards 0
Personal Protection X

Supplier Address
Ellis Paint Company / Restoration Shop
3150 E. Pico Blvd.
Los Angeles, CA 90023-3683

Prepared By Product Stewardship

Revision date 12-May-2015
Revision Note No information available

Disclaimer
The information on this Safety Data Sheet (SDS) is based on the present state of our knowledge, current national legislation and guidelines. As the specific conditions of use of the product are outside the supplier's knowledge and control the user is responsible for ensuring that the requirements of relevant legislation are complied with. This SDS should not be construed as any guarantee of the technical performance or suitability for particular applications. UNLESS SUPPLIER AGREES OTHERWISE IN WRITING, SUPPLIER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. SUPPLIER WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

End of Safety Data Sheet