SAFETY DATA SHEET

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

Product identifier
Product Code: KUS KH2021
Product Name: Ultra Flow Urethane 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

Custom Shop
6695 Rasha St.
San Diego, CA 92121
United States

Emergency telephone number
CHEMTREC (800) 424-9300
CUSTOMER SERVICE (858) 909-2110

Section 2: HAZARDS IDENTIFICATION

Classification

<table>
<thead>
<tr>
<th>Condition</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Inhalation (Vapors)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Dusts/Mists)</td>
<td>Category 4</td>
</tr>
<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
Signal word  DANGER

HAZARD STATEMENTS
Highly flammable liquid and vapor
Harmful if inhaled
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
May cause respiratory irritation

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. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash face, hands and any exposed skin thoroughly after handling. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. 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 INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
  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
Not applicable.

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>weight-%</th>
</tr>
</thead>
</table>

Product Code  KUS KH2021
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 INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

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

Most important symptoms and effects, both acute and delayed

Symptoms
No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians
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 spillages 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>
</table>

Product Code  KUS KH2021
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AGHS - USA OSHA SDS
<table>
<thead>
<tr>
<th>Chemical</th>
<th>STEL: 300 ppm</th>
<th>TWA: 200 ppm</th>
<th>TWA: 590 mg/m³</th>
<th>IDLH: 3000 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl ethyl ketone 78-93-3</td>
<td></td>
<td>TWA: 200 ppm</td>
<td>TWA: 590 mg/m³</td>
<td>TWA: 200 ppm</td>
</tr>
<tr>
<td>n-Butyl acetate 123-86-4</td>
<td>STEL: 200 ppm</td>
<td>TWA: 150 ppm</td>
<td>TWA: 710 mg/m³</td>
<td>TWA: 150 ppm</td>
</tr>
<tr>
<td>Benzene, 1,2,4-trimethyl-95-63-6</td>
<td>TWA: 25 ppm</td>
<td></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></td>
<td>TWA: 0.045 mg/m³</td>
<td>TWA: 0.005 ppm</td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td>TWA: 50 ppm</td>
<td>TWA: 50 ppm</td>
<td>TWA: 245 mg/m³</td>
<td>TWA: 900 ppm</td>
</tr>
<tr>
<td>Hexamethylene diisocyanate 822-06-0</td>
<td>TWA: 0.005 ppm</td>
<td></td>
<td></td>
<td>Ceiling: 0.020 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 min</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
   Upper flammability limit: No information available
   Lower flammability limit: No information available
Vapor Pressure No information available
vapor density No information available
Density (lbs per US gallon) 8.32
specific gravity 1
Solubility(ies) No information available
Partition coefficient No information available
Autoignition temperature No information available
Decomposition temperature No information available
Kinematic viscosity No information available
Dynamic viscosity No information available

Other information

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.


Hazardous Decomposition Products Carbon monoxide. Carbon dioxide (CO2).

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

Harmful if inhaled

May cause respiratory irritation

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</td>
<td>-</td>
<td>-</td>
<td>= 18500 mg/m³ (Rat) 1 h</td>
</tr>
<tr>
<td>28182-81-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methyl ethyl ketone</td>
<td>2483 mg/kg (Rat)</td>
<td>5000 mg/kg (Rabbit)</td>
<td>11700 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>78-93-3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isophoronediisocyanate, Homopolymer</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>53880-05-0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-Butyl acetate</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>123-86-4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Product Code KUS KH2021

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AGHS - USA OSHA SDS
### Solvent naphtha, petroleum, light aromatic 64742-95-6

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene, 1,2,4-trimethyl-95-63-6</td>
<td>&gt; 3280 mg/kg (Rat)</td>
<td>&gt; 3160 mg/kg (Rabbit)</td>
<td>= 18 g/m³ (Rat) 4 h</td>
<td></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>
<td></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>
<td></td>
</tr>
<tr>
<td>Hexamethylene diisocyanate 822-06-0</td>
<td>= 738 mg/kg (Rat)</td>
<td>= 593 mg/kg (Rabbit)</td>
<td>= 0.06 mg/L (Rat) 4 h</td>
<td></td>
</tr>
</tbody>
</table>

#### Numerical measures of toxicity - Product Information

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

- **ATEmix (inhalation-dust/mist)**: 2.7 mg/l
- **ATEmix (inhalation-vapor)**: 20 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>Group 2B</td>
<td>X</td>
<td></td>
<td></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
- May cause respiratory irritation

### Specific target organ toxicity (repeated exposure)
- Not applicable

### Aspiration hazard
- Not applicable

---

### Section 12: ECOLOGICAL INFORMATION

#### Ecotoxicity
- 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

<table>
<thead>
<tr>
<th>14.1 UN/ID no</th>
<th>DOT</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 Proper shipping name</td>
<td>Paint related material</td>
<td>Paint related material</td>
<td>Paint related material</td>
</tr>
</tbody>
</table>

14.3 Hazard Class
14.4 Packing Group
14.5 Environmental hazard
14.6 Special Provisions

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

The supplier may apply one of the following exceptions: Combustible Liquid (49 CFR 173.150(f)); Consumer Commodity (49 CFR 173.150(c), ICAO/IATA SP A112); Limited Quantity (49 CFR 173.150(b), ICAO Part 3 Chapter 4, IATA 2.7, IMDG Chapter 3.4); Viscous Liquid (49 CFR 173.121(b), IMDG 2.3.2.2; IATA 3.3.1.1, ICAO 3.2.2, ADR 2.2.3.1.5); Does Not Sustain Combustion (49 CFR 173.120(a), IATA 3.3.1.3, ICAO 3.1.3, IMDG 2.3.1.3, ADR 2.2.3.1.1 Note 1); or others as allowed under hazardous materials/dangerous goods regulations.

Section 15: REGULATORY INFORMATION

International Inventories
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL - Canadian Domestic Substances List

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-</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>95-63-6 1 - 3</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></td>
<td></td>
</tr>
<tr>
<td>Hexamethylene diisocyanate</td>
<td>1</td>
<td>Present</td>
</tr>
<tr>
<td>822-06-0 0.1 - 0.3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories

- Acute health hazard: Yes
- Chronic Health Hazard: Yes
- Fire hazard: Yes
- Sudden release of pressure hazard: No
- Reactive Hazard: No

<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></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></td>
<td></td>
<td>RQ 2270 kg final RQ</td>
</tr>
</tbody>
</table>
### US State Regulations

#### Rule 66 status of product
Photochemically reactive.

#### 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>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexamethylene diisocyanate homopolymer</td>
<td>28182-81-2</td>
</tr>
<tr>
<td>Methyl ethyl ketone</td>
<td>78-93-3</td>
</tr>
<tr>
<td>Isophorone diisocyanate, Homopolymer</td>
<td>53880-05-0</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**
- Valspar Coatings
- 701 Shiloh Rd.
- Garland, TX 75042
- 972-276-5181

**Prepared By**
- Product Stewardship

**Revision date**
- 21-Mar-2016

**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
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End of Safety Data Sheet