



# SAFETY DATA SHEET

Revision date 21-Mar-2016

Version 13

Supersedes Date: 21-Mar-2016

## 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

Acute toxicity - Inhalation (Vapors)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

### Label elements

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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 CO<sub>2</sub>, dry chemical, or foam for extinction.

#### STORAGE

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

#### 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.

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	weight-%
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Hexamethylene diisocyanate homopolymer	28182-81-2	50 - 70
Methyl ethyl ketone	78-93-3	25 - 50
Isophoronediiisocyanate, Homopolymer	53880-05-0	5 - 10
n-Butyl acetate	123-86-4	3 - 5
Solvent naphtha, petroleum, light aromatic	64742-95-6	3 - 5
Benzene, 1,2,4-trimethyl-	95-63-6	1 - 3
Isophorone diisocyanate	4098-71-9	0.1 - 0.3
Cumene	98-82-8	0.1 - 0.3
Hexamethylene diisocyanate	822-06-0	0.1 - 0.3

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 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, CO<sub>2</sub>, 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

Strong bases. Strong oxidizing agents. Copper. Amines.

## 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.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
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Methyl ethyl ketone 78-93-3	STEL: 300 ppm TWA: 200 ppm	TWA: 200 ppm TWA: 590 mg/m <sup>3</sup>	IDLH: 3000 ppm TWA: 200 ppm TWA: 590 mg/m <sup>3</sup> STEL: 300 ppm STEL: 885 mg/m <sup>3</sup>
n-Butyl acetate 123-86-4	STEL: 200 ppm TWA: 150 ppm	TWA: 150 ppm TWA: 710 mg/m <sup>3</sup>	IDLH: 1700 ppm TWA: 150 ppm TWA: 710 mg/m <sup>3</sup> STEL: 200 ppm STEL: 950 mg/m <sup>3</sup>
Benzene, 1,2,4-trimethyl- 95-63-6	TWA: 25 ppm		TWA: 25 ppm TWA: 125 mg/m <sup>3</sup>
Isophorone diisocyanate 4098-71-9	TWA: 0.005 ppm		TWA: 0.005 ppm TWA: 0.045 mg/m <sup>3</sup> STEL: 0.02 ppm STEL: 0.180 mg/m <sup>3</sup>
Cumene 98-82-8	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m <sup>3</sup> S*	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m <sup>3</sup>
Hexamethylene diisocyanate 822-06-0	TWA: 0.005 ppm		Ceiling: 0.020 ppm 10 min Ceiling: 0.140 mg/m <sup>3</sup> 10 min TWA: 0.005 ppm TWA: 0.035 mg/m <sup>3</sup>

### **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**

<b>Physical state</b>	liquid
<b>Appearance</b>	No information available
<b>Odor</b>	Solvent
<b>Color</b>	No information available
<b>Odor Threshold</b>	No information available
<b>pH value</b>	No information available
<b>Melting point/freezing point</b>	No information available
<b>Boiling point / boiling range</b>	79.6 °C / 175 °F

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<b>flash point</b>	-7 °C / 19 °F
<b>evaporation rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability Limit in Air</b>	
<b>Upper flammability limit:</b>	No information available
<b>Lower flammability limit:</b>	No information available
<b>Vapor Pressure</b>	No information available
<b>vapor density</b>	No information available
<b>Density (lbs per US gallon)</b>	8.32
<b>specific gravity</b>	1
<b>Solubility(ies)</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	No information available
<b>Dynamic viscosity</b>	No information available

**Other information**

**Section 10: STABILITY AND REACTIVITY**

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Hazardous polymerization</b>	None under normal processing.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	Strong bases. Strong oxidizing agents. Copper. Amines.
<b>Hazardous Decomposition Products</b>	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**

<b>Chemical Name</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LC50</b>
Hexamethylene diisocyanate homopolymer 28182-81-2	-	-	= 18500 mg/m <sup>3</sup> ( Rat ) 1 h
Methyl ethyl ketone 78-93-3	= 2483 mg/kg ( Rat )	= 5000 mg/kg ( Rabbit )	= 11700 ppm ( Rat ) 4 h
Isophoronediiisocyanate, Homopolymer 53880-05-0	-	-	-
n-Butyl acetate 123-86-4	= 14.13 mg/kg ( Rat )	> 17600 mg/kg ( Rabbit )	= 390 ppm ( Rat ) 4 h

Solvent naphtha, petroleum, light aromatic 64742-95-6	-	> 2000 mg/kg ( Rabbit )	= 3400 ppm ( Rat ) 4 h
Benzene, 1,2,4-trimethyl- 95-63-6	= 3280 mg/kg ( Rat )	> 3160 mg/kg ( Rabbit )	= 18 g/m <sup>3</sup> ( Rat ) 4 h
Isophorone diisocyanate 4098-71-9	= 1097 mg/kg ( Rat )	1060 - 4780 mg/kg ( Rabbit )	= 0.135 mg/L ( Rat ) 4 h
Cumene 98-82-8	= 1400 mg/kg ( Rat )	= 12300 µL/kg ( Rabbit )	> 3577 ppm ( Rat ) 6 h
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) 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**

<b>Chemical Name</b>	<b>ACGIH</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>
Cumene 98-82-8		Group 2B		X

*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.*

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

<b>Section 14: TRANSPORT INFORMATION</b>
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<b>14.1 UN/ID no</b>	<b>DOT</b> UN1263	<b>IMDG</b> UN1263	<b>IATA</b> UN1263
<b>14.2 Proper shipping name</b>	Paint related material	Paint related material	Paint related material
<b>14.3 Hazard Class</b>	3	3	3
<b>14.4 Packing Group</b>	II	II	II
<b>14.5 Environmental hazard</b>	Not applicable		
<b>14.6 Special Provisions</b>	149, B52, IB2, T4, TP1, TP8, TP28, 367	163, 367 <b>EmS-No</b> F-E, S-E	A3, A72, A192
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	<b>Emergency Response Guide Number</b> 128		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 3.3.3.1.1, 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.

<b>Section 15: REGULATORY INFORMATION</b>
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**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**

Chemical Name	SARA 313 - Threshold Values %	Hazardous air pollutants (HAPs) content
Benzene, 1,2,4-trimethyl- 95-63-6 1 - 3	1	
Cumene 98-82-8 0.1 - 0.3	1	Present
Hexamethylene diisocyanate 822-06-0 0.1 - 0.3	1	Present

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire hazard</b>	Yes
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
n-Butyl acetate 123-86-4	5000 lb			X

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Methyl ethyl ketone 78-93-3	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

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n-Butyl acetate 123-86-4	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Isophorone diisocyanate 4098-71-9		500 lb	
Cumene 98-82-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Hexamethylene diisocyanate 822-06-0	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

## 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

Chemical Name
Hexamethylene diisocyanate homopolymer 28182-81-2
Methyl ethyl ketone 78-93-3
Isophoronediiisocyanate, Homopolymer 53880-05-0
n-Butyl acetate 123-86-4
Solvent naphtha, petroleum, light aromatic 64742-95-6
Benzene, 1,2,4-trimethyl- 95-63-6
Cumene 98-82-8

## 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

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**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**