

Material Safety Data Sheet



Section 1: Product and Company Identification

Product Name: **AquaVers 201-Part A**

Sold By: **VersaFlex Incorporated**
87 Shawnee Avenue
Kansas City, KS 66105
913.321.9000

FOR CHEMICAL EMERGENCY Spill, leak, fire, exposure, or accident, call CHEMTREC day or night
Domestic North America **800.424.9300** International **703.527.3887**

Fax Phone: **913.321.1490**

TSCA Inventory: All components of this product are included, or are exempt from inclusion, in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Canadian DSL: All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List (DSL).

Section 2: Composition/Information on Ingredients

<u>Hazardous Components</u>	<u>CAS#</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>% by Wgt</u>
Homopolymer of HDI	28182-81-2	Not Determined	Not Determined	>99%
Hexamethylene-1,6-Diisocyanate	822-06-0	Not Determined	Not Determined	<0.5%

Section 3: Hazards Identification

Emergency Overview:

Routes of Entry:

<u>Route</u>	<u>Entry Risk</u>
Inhalation	Possible
Ingestion	Possible
Skin Contact	Possible
Eye Contact	Possible

Potential Health Effects:

Inhalation	May cause nausea and respiratory tract irritation. May cause respiratory sensitization in susceptible individuals.
Ingestion	No significant signs or symptoms of any adverse health hazards.
Skin Contact	Product is a slight skin irritant. May cause swelling and redness.
Eye Contact	Mild eye irritant. Vapors slightly uncomfortable. Splashes irritating and painful.

Acute Health Hazards: No information is available on the acute health hazards of this product. Based upon data from testing of similar products, no significant effects are expected.

Chronic Health Hazards: If misted or at high concentrations, may cause pallor, nausea, anesthetic or narcotic effects.

Medical Conditions Generally Aggravated by Exposure: Skin and eye sensitization. Depending on individual skin sensitivity, chronic or prolonged exposure may result in irritation, blistering, burning and peeling of skin layers.

Carcinogenicity: OSHA: No data ACGIH: No data NTP: No data IARC: No data
Other:

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. If redness, itching, or a burning sensation develops, seek medical attention.

Skin Contact: Remove from skin immediately. Rinse with clean water for 20-30 minutes. Use soapy water if needed. If redness, itching, or a burning sensation develops, seek medical attention.

Ingestion: Do NOT induce vomiting! Dilute with water and seek medical attention immediately.

Inhalation: Move victim to fresh air immediately. Give oxygen and seek medical attention.

Section 5: Fire-Fighting Measures

Flammable Limits: Not determined

Flash Point, (Method Used): >200° F (93°C) (Pensky Marten Closed)

Autoignition Temperature:

NFPA Hazard Rating:	Health: 2	Hazard Scale	Protective Equipment
	Flammability: 1	0=LEAST	A=SAFETY GLASSES
	Reactivity: 1	1=SLIGHT	B=SAFETY GLASSES, GLOVES
	Other: B	2=MODERATE	C=SAFETY GLASSES, GLOVES AND APRON
		3=HIGH	D= SAFETY GLASSES, GLOVES , APRON and RESPIRATOR
		4=EXTREME	

HMIS Hazard Rating: Health: 2

Flammability: 1

Reactivity: 1

Protection: B

Extinguishing Media: Foam/Carbon dioxide/Dry Chemical/Water fog

Special Fire Fighting Procedures: Remove all ignition sources. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products exist.

Unusual Fire and Explosion Hazards: Closed containers may rupture due to build-up of pressure when exposed to extreme heat.

Hazardous Decomposition Products:

Section 6: Accidental Release Measures

Accidental Release Measures: Avoid contact with material. Persons not wearing appropriate protective equipment should be excluded until spill is cleaned up. Stop spill at source, pump liquid to salvage container. Remaining liquid may be taken up on clay, diatomaceous earth, or other absorbent. Treat with Decontamination Solutions: Nonionic surfactant Union Carbide's Tergitol TMN-10 (20%) and water (80%); concentrated ammonia (3-8%), detergent (2%) and water (90-95%).

Section 7: Handling and Storage

Handling & Storage Precautions: Prevent all skin and eye contact. Avoid breathing vapors. Re-seal partially used containers. Wash with soap and water before eating or drinking. Protect from moisture contamination. Exothermic generation of carbon dioxide may cause dangerous pressure. Keep away from all ignitable sources as well as extreme heat. Do not expose to excessive moisture.

Section 8: Exposure Control/Personal Protection

Ventilation: Adequate ventilation required. Local exhaust may be required in some areas. Special exhausting generally not required. Mechanical exhaust usually adequate.

Respiratory Protection: Respiratory masks should be worn at all times when adequate ventilation does not exist. A NIOSH/MSHA respirator is acceptable.

Eye Protection: Chemical tight goggles; full face shield if splashing is possible.

Skin Protection: Coveralls and impervious foot covering is recommended.

Other Protective Clothing or Equipment: Use impervious gloves, neoprene or rubber.

Work/ Hygienic Practices: Good air flow in working area. Eyewash station and safety shower should be available. Gloves and respiratory equipment should be worn at all times.

Section 9: Physical and Chemical Properties

Appearance:	Clear/pale yellow		
Odor:	Slightly Musty		
Physical State:	Liquid		
ph As Supplied:	Not applicable		
ph (Other):	No Data		
Boiling Point:	N/A		
Melting Point:	Not determined		
Freezing Point:	Not determined		
Vapor Pressure (mmHg):	Approx. 5.2×10^{-9}		
Vapor Density (Air=1):	No Data		
Specific Gravity (Water=1):	1.15 @ 25° C		
Evaporation Rate (Butyl Acetate=1):	No Data		
Solubility in Water:	Insoluble in water @68°F (20°C)		
Percent Solids by Weight:	9.6 Lb./Gal		
Percent Volatile (grams/liter):	By Weight: 0%	By Volume: 0%	
Volatile Organic Compounds (VOC) (grams/liter):	With Water: 0%	Without Water: 0%	
Viscosity:	650-750		

Section 10: Stability and Reactivity

Stability:	Stable
Conditions to Avoid (Stability):	Avoid excessive heat, open flame, sparks and strong oxidizing agents. Protect from atmospheric moisture. Replace outage with inert dry nitrogen.
Incompatibility (Materials to Avoid):	Avoid water, acid, base (alkalis, ammonia), alcohols, metal compounds.
Hazardous Decomposition or Byproducts:	Isocyanate vapors or mist, carbon dioxide, carbon monoxide, nitrogen oxides.
Hazardous Polymerization:	Will not occur under normal circumstances.
Conditions to Avoid (Polymerization):	Avoid incompatible reactants, especially strong bases, water or temperatures over 160° Centigrade.

Section 11: Toxicological Information

Toxicological Information (Acute Toxicity):	ORAL LD50: Estimated to be greater than 10000 MG/KG (rats) DERMAL LD50: Estimated to be greater than 5000 MG/KG (rabbits) INHALATION LC50: Lower Respiratory (Pulmonary) Irritant. LC 50 Value Range from 137-1150 MG/M3 were obtained in rats exposed to aerosols. (4H EXP.) Severe irritant capable of inducing corneal injury (rabbit) Maximum primary eye irritant score: 54.6/110 for 24 hour skin effects: Moderate and Dermal. Primary dermal irritation score: 3.4/8.0 (rabbit). Pulmonary and dermal sensitizer in animals and humans.
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Section 12: Ecological Information

Ecological Information:	No Data
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Section 13: Disposal Considerations

Waste Disposal Method:	Use excess product in an alternate beneficial application. Dispose of according to current local, state, and federal regulations.
RCRA Hazard Class:	Non-Regulated

Section 14: Transport Information

U.S. Department of Transportation

Proper Shipping Name: Aliphatic Polyisocyanate
Hazard Class: Non-regulated in 55 gallon drums, NOI
ID Number:
Packing Group:
Label Statement:

Water Transportation

Proper Shipping Name: Aliphatic Polyisocyanate
Hazard Class: Non-regulated, NOI
ID Number:
Packing Group:
Label Statement:

Air Transportation

Proper Shipping Name: Aliphatic Polyisocyanate
Hazard Class: Non-regulated, NOI
ID Number:
Packing Group:
Label Statement:

Other Agencies:

Section 15: Regulatory Information

U.S. Federal Regulations

TSCA (Toxic Substance Control Act): Section 12(b) Export Notification. This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States: There are no TSCA 12(b) Chemicals in this product.

CERCLA (Comprehensive Response Compensation and Liability Act): CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product: Chemical Name- See Section 2

SARA Title III (Superfund Amendments and Reauthorization Act): This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

311/312 Hazard Categories: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard: See Section 3

313 Reportable Ingredients: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: Chemical Name- See Section 2

State Regulations:

California Proposition 65. The chemicals(s) noted below and contained in this product are known to the state of California to cause cancer, birth defects or other reproductive harm. Unless otherwise specified in Section 2 of this MSDS, these chemicals are present at <0.1%: There are no proposition 65 chemicals known to exist in this product.

International Regulations:

Section 16: Other Information

Other Information:

Preparation Information:

Disclaimer:

To the best of our knowledge, the information contained in this MSDS is accurate. It is intended to assist the user in his evaluation of the product's hazards, and safety precautions to be taken in its use. The data in this MSDS relate only to the specific material designated herein. We do not assume liability for the use of, or reliance on this information, nor do we guarantee its accuracy or completeness.