Material Safety Data Sheet



Section 1: Product and Company Identification

Product Name: AquaVers 405-Part A

Sold By: PolyVers International

> 87 Shawnee Avenue Kansas City, KS 66105

913.321.9000

FOR CHEMICAL Spill, leak, fire, exposure, or accident, call CHEMTREC day or night **EMERGENCY**

Domestic North America 800.424.9300 International 703.527.3887

Fax Phone: 913.321.1490

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

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

Hazardous Components	CAS#	ACGIH TLV	OSHA PEL	% by Wgt
4,4' Diphenylmethane Diisocyanate	101-68-8	0.005 ppm	02 ppm Cei	
Polypropylene carbonate	108-32-7	Not Determined	Not Determined	

Section 3: Hazards Identification

Emergency Overview:

Routes of Entry: Entry Risk Route

> Inhalation Possible Possible Ingestion 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.

lngestion: 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° Fahrenheit (Pensky Marten Closed)

Autoignition Temperature:

NFPA Hazard Rating: Health: 2 Hazard Scale Protective Equipment

Flammability: 1 0=LEAST A=SAFETY GLASSES 1=SLIGHT B=SAFETY GLASSES, GLOVES

Reactivity: 0 2=MODERATE C=SAFETY GLASSES, GLOVES AND APRON D= SAFETY GLASSES, GLOVES , APRON and

Other: B 4=EXTREME RESPIRATOR

HMIS Hazard Rating: Health: 2

Flammability: 1
Reactivity: 0
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 the spill is cleaned up. Stop spill at source, pump liquid into salvage container. Remaining liquid may be taken up on clay, diatomaceous earth, or other absorbent. Treat with 5-8% concentration of ammonium hydroxide or 5-10% sodium carbonate. Add 10 parts neutralizing solution/part isocyanate. Let stand 48 hours.

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: Pale yellow to amber

Faint odor Odor: Physical State: Liquid No Data ph As Supplied: ph (Other): No Data Boiling Point: N/A

Melting Point: Not determined

No Data Freezing Point:

Vapor Pressure (mmHg): Not determined Vapor Density (Air=1): Not determined

Specific Gravity (Water=1): 1.15

Evaporation Rate (Butyl

Slower than

Solubility in Water: Negligible (<1%)

100% Percent Solids by Weight:

Percent Volatile (grams/liter):

Acetate=1):

By Weight: 0% By Volume:

Volatile Organic

Compounds (VOC) With Water: 0% Without Water: 0%

(grams/liter):

Viscosity: No Data

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid excessive heat, open flame, sparks and strong oxidizing agents. Protect from atmospheric Avoid (Stability):

moisture. Replace outage with inert dry nitrogen.

Incompatibility (Materials

to Avoid):

Avoid water, acid, base (alkalis, ammonia), alcohols, metal compounds.

Hazardous Decomposition Isocyanate vapors or mist, carbon dioxide, carbon monoxide, nitrogen oxides.

or Byproducts:

Hazardous Polymerization: Will not occur under normal circumstances.

Conditions to Avoid (Polymerization):

Avoid incompatible reactants, especially strong bases, water or temperatures over 160° Centigrade.

0%

Section 11: Toxicological Information

Toxicological Information: No Data

Section 12: Ecological Information

Ecological Information: No Data

Section 13: Disposal Considerations

Waste Disposal Method: Use excess product in an alternate beneficial application. Dispose of according to all local, state and

federal regulations.

RCRA Hazard Class: Non-Regulated

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Section 14: Transport Information

U.S. Department of Transportation

Proper Shipping Name: Methylene diphenyl diisocyanate pre polymer

Hazard Class: Non-Regulated (in 55 gallon drums), NOI

ID Number: Packing Group: Label Statement:

Water Transportation

Proper Shipping Name: Methylene diphenyl diisocyanate pre polymer

Hazard Class: Non-Regulated, NOI

ID Number: Packing Group: Label Statement:

Air Transportation

Proper Shipping Name: Methylene diphenyl diisocyanate pre polymer

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.

Compensation and Liability Act):

CERCLA (Comprehensive Response 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

and Reauthorization Act):

SARA Title III (Superfund Amendments 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.

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