# **Material Safety Data Sheet**

# **Section 1: Product and Company Identification**

**ACC Water Borne Urethane - Part A** Product Name:

Sold By: **Advantage Chemical Coatings** 

14425 N 79th St Suite E Scottsdale AZ, 85260

480-888-2628

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

Fax Phone:

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
Homopolymer of Hexamethylene Diisocyanate	28182-81-2			60 - 100
Hydrophilic Aliphatic Polyisocyanate based on Hexamethylene Diisocyanate	Proprietary	Not Determined	Not Determined	15 - 25
Hexamethylene-1,6-Diisocyanate	822-06-0			< 0.1

# **Section 3: Hazards Identification**

**Emergency Overview:** 

Routes of Entry: Route Entry Risk

Inhalation Possible Ingestion Possible Skin Contact Possible Eye Contact Possible

No data

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:

Carcinogenicity:

Skin and eye sensitization. Depending on individual skin sensitivity, chronic or prolonged exposure may result in irritation, blistering, burning and peeling of skin layers.

No data

IARC:

No data

OSHA: ACGIH: No data

Other:

ACC WB Urethane MSDS Advantage Chemical Coatings ©2010 Rev: 012-12-10 Page 1 of 10

#### Section 4: First Aid Measures

Eve 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

365° Fahrenheit (Pensky Marten Closed)

Used):

Autoignition Temperature:

NFPA Hazard Rating: Health: 2 **Hazard Scale Protective Equipment** 

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

Reactivity: 1 C=SAFETY GLASSES, GLOVES AND APRON 2=MODERATE 3=HIGH D= SAFETY GLASSES, GLOVES, APRON and Other:

4=EXTREME RESPIRATOR

HMIS Hazard Rating: Health: 2

> Flammability: 1 Reactivity: 1 Protection:

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 to salvage container. Remaining liquid may be taken up on clay, diatomaceous earth, or other absorbent. Treat with 3-8% 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.

ACC WB Urethane MSDS Advantage Chemical Coatings ©2010 Rev: 012-12-10 Page 2 of 10

# **Section 9: Physical and Chemical Properties**

Light Yellow Appearance:

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

Melting Point: Not determined

Freezing Point: No Data

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

Specific Gravity (Water=1): 1.15

Evaporation Rate (Butyl

No Data Acetate=1): Solubility in Water: Reacts

Percent Solids by Weight: 100

Percent By Weight: 0% By Volume: 0%

Volatile(grams/liter):

Volatile Organic

Compounds With Water: 0% Without Water: 0%

(VOC)(grams/liter):

Viscosity: ca 600 cPs

# **Section 10: Stability and Reactivity**

Stability: Stable under normal conditions of use and storage.

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.

or Byproducts:

Hazardous Decomposition 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 oral toxicity

LD50: > 5,000 mg/kg (Rat)

Estimated Value

Acute inhalation toxicity

LC50: 390-453 mg/m3, 4 h (Rat, Male/Female)

RD50: 20.8 mg/m3, 3 h Acute dermal toxicity LD50: > 5,000 mg/kg (rabbit)

Skin irritation

rabbit, Draize, Slightly irritating

Eye irritation

rabbit, Draize, Slightly irritating

Sensitisation

dermal: sensitizer (Guinea pig, Maximization Test) dermal: non-sensitizer (Guinea pig, Buehler) inhalation: non-sensitizer (Guinea pig)

Repeated dose toxicity

3 wks, inhalation: NOAEL: 3.7 - 4.3 mg/m3, (Rat) 90 d, inhalation: NOAEL: 3.3 - 3.4 mg/m3, (Rat)

Irritation to lungs and nasal cavity.

Advantage Chemical Coatings ©2010 ACC WB Urethane MSDS Rev: 012-12-10 Page 3 of 10

#### Mutagenicity

Genetic Toxicity in Vitro:

Chromosome aberration test in vitro: negative Toxicological studies of a comparable product.

Point mutation in mammalian cells (HPRT test): negative

Toxicological studies of a comparable product.

Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)

## **Section 12: Ecological Information**

Ecological Information: Biodegradation

0 %, Exposure time: 28 Days, Not readily biodegradable.

Acute and Prolonged Toxicity to Fish

LC0: > 100 mg/l (Zebra fish (Brachydanio rerio), 96 h)

**Acute Toxicity to Aquatic Invertebrates** 

EC0: > 100 mg/l (Water flea (Daphnia magna), 48 h)

**Toxicity to Aquatic Plants** 

EC50: > 1,000 mg/l, (Green algae (Scenedesmus subspicatus), 72 h)

**Toxicity to Microorganisms** 

EC50: > 1,000 mg/l, (Activated sludge microorganisms, 3 h)

# **Section 13: Disposal Considerations**

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental control

laws.

Incineration is the preferred method.

Empty containers retain product residue; observe all precautions for product. Do not heat or cut empty container with electric or gas torch because highly toxic vapors and gases are formed. Do not reuse without thorough commercial cleaning and reconditioning. If container is to be disposed,

ensure all product residues are removed prior to disposal.

RCRA Hazard Class: Non-regulated

# **Section 14: Transport Information**

## **U.S. Department of Transportation**

Proper Shipping Name: ACC WB Urethane Part A

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

ID Number: None

Packing Group:

Label Statement:

#### **Water Transportation**

Proper Shipping Name: ACC WB Urethane Part A

Hazard Class: Non-Regulated, NOI

ID Number:

Packing Group:

Label Statement:

#### Air Transportation

Proper Shipping Name: ACC WB Urethane Part A

Hazard Class: Non-Regulated, NOI

ID Number:

Packing Group:

Label Statement:

## Other Agencies:

Advantage Chemical Coatings ©2010 ACC WB Urethane MSDS Rev: 012-12-10 Page 4 of 10

# **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 CERCLA section 103(a) specifically requires the person in charge of a vessel or facility Compensation and Liability Act): 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.

ACC WB Urethane MSDS Advantage Chemical Coatings ©2010 Rev: 012-12-10 Page 5 of 10

# **Material Safety Data Sheet**

## **Section 1: Product and Company Identification**

Product Name: **ACC Water Borne Urethane -Part B** 

**Advantage Chemical Coatings** Sold By:

14425 N 79th St Suite E Scottsdale AZ, 85260

480-888-2628

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

Fax Phone: 480-502-9071

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
Acrylic Resin	Proprietary	Not Determined	Not Determined	40 - 50
Water	7732-18-5	Not Determined	Not Determined	50 - 60

## **Section 3: Hazards Identification**

**Emergency Overview:** 

Routes of Entry: Route Entry Risk

Inhalation Possible Ingestion Possible Skin Contact Possible **Eve Contact** Possible

Potential Health Effects: Inhalation May cause nausea and respiratory tract irritation. May cause respiratory sensitization

in susceptible individuals.

Ingestion Moderately toxic, cause abdominal cramps, nausea, swelling. **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: Acute ingestion causes burning of the mouth, throat, and stomach with abdominal pain. Acute

inhalation of vapors and mist can cause nasal discharge and pain in the eyes.

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

**Medical Conditions** Generally Aggravated by

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

Carcinogenicity: OSHA: ACGIH: No data No data No data IARC: No data

Other:

ACC WB Urethane MSDS Advantage Chemical Coatings ©2010 Rev: 012-12-10 Page 6 of 10

#### Section 4: First Aid Measures

Eve 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):

N/A

Autoignition Temperature:

NFPA Hazard Rating: Health: 1 **Hazard Scale Protective Equipment** 

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

Reactivity: 0 C=SAFETY GLASSES, GLOVES AND APRON 2=MODERATE 3=HIGH D= SAFETY GLASSES, GLOVES, APRON and Other:

4=EXTREME RESPIRATOR

HMIS Hazard Rating: Health: 1

> Flammability: 1 Reactivity: 0 Protection:

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

Closed containers may rupture due to build-up of pressure when exposed to extreme heat.

products exist.

Unusual Fire and

**Explosion Hazards:** 

Hazardous Decomposition

Products:

# **Section 6: Accidental Release Measures**

Accidental Release

Measures:

Standard hydrocarbon spill procedures apply to this product.

#### 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.

## **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.

ACC WB Urethane MSDS Advantage Chemical Coatings ©2010 Rev: 012-12-10 Page 7 of 10

# **Section 9: Physical and Chemical Properties**

White Appearance: Odor: Very Faint Liquid Physical State: ph As Supplied: No Data ph (Other): No Data **Boiling Point:** N/A

Melting Point: Not Determined

Freezing Point: No Data

Vapor Pressure (mmHg): Not Determined

Vapor Density (Air=1): No Data Specific Gravity (Water=1): 1.05

Evaporation Rate (Butyl

No Data Acetate=1): Solubility in Water: Soluble Percent Solids by Weight: 42.05

Percent Volatile (grams/liter):

By Weight: 0% By Volume:

Volatile Organic

Compounds With Water: 0%

(VOC)(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):

Without Water: 0%

0%

moisture. Replace outage with inert dry nitrogen.

Incompatibility (Materials

Avoid strong oxidizers, acids.

to Avoid):

Hazardous Decomposition Carbon dioxide, carbon monoxide, nitrogen oxides.

or Byproducts:

Hazardous Polymerization: Will not occur under normal circumstances.

(Polymerization):

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

# **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 local, state and

federal regulations.

Non-Regulated RCRA Hazard Class:

> Advantage Chemical Coatings ©2010 ACC WB Urethane MSDS Rev: 012-12-10 Page 8 of 10

# **Section 14: Transport Information**

#### **U.S. Department of Transportation**

Proper Shipping Name: ACC WB Urethane Part B

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

ID Number: None

Packing Group: Label Statement:

#### Water Transportation

Proper Shipping Name: ACC WB Urethane Part B

Hazard Class: Non-Regulated, NOI

ID Number: Packing Group:

Label Statement:

#### Air Transportation

Proper Shipping Name: ACC WB Urethane Part B

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

SARA Title III (Superfund Amendments This product has been reviewed according to the EPA 'Hazard Categories' promulgated and Reauthorization Act): 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:** 

Advantage Chemical Coatings ©2010 ACC WB Urethane MSDS Rev: 012-12-10 Page 9 of 10

## **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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