

## SAFETY DATA SHEET

FP5001AWH00

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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

#### MANUFACTURER'S NAME / ADDRESS

ARIZONA POLYMER FLOORING  
4565 W WATKINS ST.  
PHOENIX, AZ 85043 .

TRADE NAME: POLYUREA 5001 PART A  
COLOR: WHITE AND TINTS  
MAIN USE: SPECIALTY FLOORING RESIN

EMERGENCY TELEPHONE NUMBER: (800) 424-9300 (CHEMTREC)

### SECTION 2: HAZARDS IDENTIFICATION

#### GLOBALLY HARMONIZED SYSTEM (GHS)

##### CLASSIFICATION:

SKIN CORROSION: CATEGORY 1

EYE DAMAGE: CATEGORY 1

CARCINOGENICITY: CATEGORY 2

SKIN SENSITIZATION: CATEGORY 1

ACUTE TOXICITY, ORAL: CATEGORY 4

ACUTE TOXICITY, DERMAL: CATEGORY 4

AQUATIC TOXICITY: CATEGORY 3

#### GHS LABEL ELEMENTS

##### HAZARD PICTOGRAMS



SIGNAL WORD: DANGER!

#### HAZARD STATEMENTS

H302+H312: HARMFUL IN CONTACT WITH SKIN OR IF SWALLOWED

H314: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE

H317: MAY CAUSE AN ALLERGIC SKIN REACTION

H335: MAY CAUSE RESPIRATORY TRACT IRRITATION

H351: SUSPECTED OF CAUSING CANCER

H411: TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

#### PRECAUTIONARY STATEMENTS:

##### PREVENTION

P261: AVOID BREATHING DUST/FUME/GAS/MIST/VAPORS/SPRAY

P264: WASH SKIN THOROUGHLY AFTER HANDLING

P270: DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT

P272: CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE

P273: AVOID RELEASE TO ENVIRONMENT

P280: WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION

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<b>SECTION 2: HAZARDS IDENTIFICATION CON'T.</b>
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**RESPONSE**

P308+P313: IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION.  
 P303+P361+353: **IF ON SKIN (OR HAIR):** REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER  
 P305+P351+P338: **IF IN EYES:** RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO SO. CONTINUE RINSING.  
 P304+P340 **IF INHALED:** REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING  
 P301+P331: IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING  
 P337+P313: IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION  
 P361+P364: TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE  
 P391: COLLECT SPILLAGE

**STORAGE**

STORE LOCKED UP

**DISPOSAL**

P501: DISPOSE OF CONTENTS/CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT

**EMERGENCY OVERVIEW:** CAUTION!  
 RISK OF SERIOUS DAMAGE TO EYES  
 HARMFUL IN CONTACT WITH SKIN  
 HARMFUL IF SWALLOWED  
 CORROSIVE  
 COMPONENTS OF THE PRODUCT MAY EFFECT THE NERVOUS SYSTEM  
 SEVERE EYE IRRITANT  
 SEVERE SKIN IRRITANT  
 MAY CAUSE SENSITIZATION BY SKIN CONTACT

<b>SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS</b>
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<u>HAZARDOUS INGREDIENTS</u>	<u>Wt. %</u>	<u>CAS Number</u>
ASPARTIC ESTER	60-100	136210-32-7
ISOPHORONEDIAMINE-ISOBUTYRALDIMINE	15-40	054914-37-3
MODIFIED CARBONATE BIS-OXAZOLIDINE	1-5	045899-78-1
TITANIUM DIOXIDE	0-20	013463-67-7
IRON (III) OXIDE	0-10	001309-37-1
CARBON BLACK	0-10	001333-86-4

<b>SECTION 4: FIRST AID MEASURES</b>
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**GENERAL:** REMOVE PERSON FROM AFFECTED AREA AND MAKE COMFORTABLE. TREAT SYMPTOMATICALLY.

**EYES:** FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.

**SKIN:** REMOVE PRODUCT AND FLUSH AFFECTED AREA WITH WATER FOR 15 MINUTES. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.

**INHALATION:** MOVE TO FRESH AIR. GIVE ASSISTED RESPIRATION IF BREATHING HAS STOPPED OR IS LABORED (CALL A PHYSICIAN).

**INGESTION:** GIVE 3 – 4 GLASSES OF WATER OR MILK IF PERSON CONSCIOUS. **DO NOT INDUCE VOMITING!** OBTAIN MEDICAL CARE AND TREATMENT

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### SECTION 5: FIRE FIGHTING MEASURES

**FLASH POINT:** 85°C (185°F) – PMCC

**OSHA CLASS:** IIIB

**CONDITIONS OF FLAMMABILITY:** NA

**AUTO IGNITION TEMP.:** NA

**FLAMMABLE LIMITS:** LEL: NE UEL: NE

**SENSITIVITY TO IMPACT:** NONE

**HAZARDOUS COMBUSTION PRODUCTS:** CO, CO<sub>2</sub>, NH<sub>3</sub>, NITROGEN OXIDES CAN BE PRODUCED IF HEATED, BURNED OR REACTED WITH INCOMPATIBLE MATERIALS. NITROGEN OXIDES CAN REACT WITH WATER VAPORS TO FORM CORROSIVE NITRIC ACID.

**SENSITIVITY TO STATIC DISCHARGE:** NONE

**EXTINGUISHING MEDIA:** IGNITION MAY GIVE RISE TO A CLASS B FIRE. IN CASE OF FIRE USE: WATER FOG, CARBON DIOXIDE, DRY CHEMICAL, ALCOHOL FOAM.

**SPECIAL FIRE FIGHTING PROCEDURES:** NONE LIKELY WITH SMALL QUANTITIES. FOR LARGE QUANTITIES, FIREFIGHTERS AND OTHERS EXPOSED TO VAPORS OR PRODUCTS OF COMBUSTION SHOULD WEAR BUTYL RUBBER BOOTS, GLOVES AND BODY SUIT. SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN.

**UNUSUAL FIRE AND EXPLOSIVE HAZARDS:** MAY GENERATE TOXIC OR IRRITATING COMBUSTION PRODUCTS. SUDDEN REACTION AND FIRE MAY RESULT IF PRODUCT IS MIXED WITH AN OXIDIZING AGENT.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** SHUT OFF SOURCES OF IGNITION. COVER SPILLS WITH ABSORBENT. PLACE IN METAL CONTAINERS FOR RECOVERY OR DISPOSAL. PREVENT ENTRY INTO SEWERS, STORM DRAINS, AND WATERWAYS.

### SECTION 7: HANDLING AND STORAGE

**HANDLING:** AVOID CONTACT WITH SKIN AND EYES. EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE READILY ACCESSIBLE. ADHERE TO WORK PRACTICE RULES ESTABLISHED BY GOVERNMENT REGULATIONS. USE PERSONAL PROTECTIVE EQUIPMENT. WHEN USING DO NOT EAT, DRINK OR SMOKE.

**STORAGE:** KEEP AWAY FROM OXIDIZERS, HEAT OR FLAME. STORE IN STEEL CONTAINERS. DO NOT STORE NEAR ACIDS. KEEP CONTAINERS TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE.

### SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

INGREDIENTS (CAS)	<u>EXPOSURE LIMITS (ppm)</u>				OTHER
	OSHA		ACGIH		
	TWA	STEL	TWA	STEL	
136210-32-7	NE	NE	NE	NE	
054914-37-3	NE	NE	NE	NE	
045899-78-1	NE	NE	NE	NE	
013463-67-7	10mg/m <sup>3</sup>	ND	10mg/m <sup>3</sup>	ND	(SEE NOTE 1)
001309-37-1	5mg/m <sup>3</sup>	ND	5mg/m <sup>3</sup>	ND	(SEE NOTE 1)
001333-86-4	3.5mg/m <sup>3</sup>	ND	3.5mg/m <sup>3</sup>	ND	(SEE NOTE 1)

**LEGEND:** (M) MAX. EXPOSURE LIMIT; (S) OCCUPATIONAL EXP. LIMIT; (R) SUPPLIERS REC. LIMIT, (+) PERCUTANEOUS RISK  
NOTE 1: VALUES MEANINGFUL ONLY WHEN HARDENED PRODUCT IS ABRADED, GROUND, ETC.

**ENGINEERING CONTROLS:** NO SPECIFIC CONTROLS NEEDED. GENERAL AND LOCAL EXHAUST RECOMMENDED.

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### SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION CON'T.

**RESPIRATORY PROTECTION:** NONE REQUIRED IN ADEQUATELY VENTILATED AREAS. IF VAPOR CONCENTRATION EXCEEDS 20ppm FOR LONGER THAN 15 MINUTES, A NIOSH APPROVED RESPIRATOR FOR ORGANIC VAPORS IS RECOMMENDED.

**PROTECTIVE GLOVES:** NITRILE RUBBER

**EYE PROTECTION:** SPLASH-PROOF GOGGLES OR CHEMICAL SAFETY GLASSES

**OTHER PROTECTIVE EQUIPMENT:** LONG SLEEVED SHIRTS AND TROUSERS. EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE READILY ACCESSIBLE.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT:** 260°C (500°F)

**SPECIFIC GRAVITY:** 1.1-1.2

**VAPOR PRESSURE:** ND

**MELTING POINT:** 0°C (32°F)

**VAPOR DENSITY:** ND  
(AIR = 1)

**EVAPORATION RATE:** ND  
(BUTYL ACETATE = 1)

**SOLUBILITY IN WATER:** <1%

**pH:** NE (ALKALINE)

**COEFFICIENT of WATER/OIL DISTRIBUTION:** ND

**ODOR THRESHOLD:** ND

**APPEARANCE AND ODOR:** PIGMENTED LIQUID. AMMONIACAL ODOR.

**% VOLATILES BY VOLUME:** 0%

**% SOLIDS BY WEIGHT:** 100

### SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** STABLE

**CONDITIONS TO AVOID:** AVOID ELEVATED TEMPERATURES

**INCOMPATIBILITY (MATERIAL TO AVOID):** OXIDIZING AGENTS (PEROXIDES, NITRATES), ACIDS.

**HAZARDOUS DECOMPOSITION PRODUCTS:** NONE KNOWN

**HAZARDOUS POLYMERIZATION (REACTIVITY):** WILL NOT OCCUR

### SECTION 11: TOXICOLOGICAL INFORMATION

**LIKELY ROUTES OF EPOSURE:** EYE CONTACT, SKIN CONTACT, INHALATION, INGESTION.

**EYES:**

ACUTE – SEVERE IRRITANT. MAY CAUSE BURNS. VAPOR MAY CAUSE LACRIMATION AND REVERSIBLE CORNEAL EDEMA.

CHRONIC– CONJUNCTIVITIS OR CORNEAL DAMAGE.

**SKIN CONTACT:**

ACUTE – UNDILUTED PRODUCT QUICKLY CAUSES IRRITATION. MAY CAUSE CHEMICAL BURNS.

CHRONIC – MAY CAUSE ALLERGIC REACTION/SENSITIZATION, DEFATTING OF SKIN, RASH AND IRRITATION.

**SKIN ABSORPTION:**

ACUTE – ND

CHRONIC – ND

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**SECTION 11: TOXICOLOGICAL INFORMATION CON'T.**

**INHALATION:**

ACUTE – VAPORS MAY CAUSE DAMAGE TO CONTACTED TISSUE AND PRODUCE SCARRING.  
 CHRONIC- REPEATED AND/OR PROLONGED EXPOSURES CAN CAUSE TIGHTNESS OF CHEST, SHORTNESS OF BREATH AND COUGH.

**INGESTION:**

ACUTE – MAY CAUSE IRRITATION AND BLEEDING OF THE GASTROINTESTINAL TRACT  
 CHRONIC – SCARRING OF THE AFFECTED TISSUES MAY OCCUR.

**ACUTE TOXICITY:** NO DATA ON THE PRODUCT ITSELF

**ACUTE ORAL TOXICITY- COMPONENTS**

ASPARTIC ESTER	LD50: >5000 mg/kg	SPECIES: RAT
ISOPHORONEDIAMINE-ISOBUTYRALDIMINE	LD50: 4150 mg/kg	SPECIES: RAT
MODIFIED CARBONATE BIS-OXAZOLIDINE	LD50: >2000 mg/kg	SPECIES: RAT

**ACUTE DERMAL TOXICITY- COMPONENTS**

ASPARTIC ESTER	LD50: >2000 mg/kg	SPECIES: RAT
ISOPHORONEDIAMINE-ISOBUTYRALDIMINE	LD50: >5000 mg/kg	SPECIES: RAT
MODIFIED CARBONATE BIS-OXAZOLIDINE	LD50: >2000 mg/kg	SPECIES: RAT

**ACUTE INHALATION TOXICITY- COMPONENTS**

ASPARTIC ESTER	LC50(4 HR): 4.224 mg/l	SPECIES: RAT
ISOPHORONEDIAMINE-ISOBUTYRALDIMINE	LC50 (4HR): > 4.178mg/l	SPECIES: RAT
MODIFIED CARBONATE BIS-OXAZOLIDINE	ND	

OECD TEST GUIDELINE 403

**SKIN CORROSION/IRRITATION**

DOT SKIN CORROSION STUDY: CORROSIVE IN ALL RABBITS AT 3 MINUTES EXPOSURE

**SERIOUS EYE DAMAGE/EYE IRRITATION**

SEVERE EYE IRRITATION

**SENSITIZATION**

FOR SKIN SENSITIZATION:

MAY CAUSE AN ALLERGIC REACTION AFTER A SINGLE EXPOSURE OR WITH REPEATED OR PROLONGED SKIN CONTACT

FOR RESPIRATORY SENSITIZATION:

NOT CLASSIFIED BUT POSSIBLE DUE TO SKIN SENSITIZATION EFFECT

**SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)**

ND

**SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)**

ND

**CARCINOGENIC DATA: NTP:** NONE

TERATOGENICITY: NO

EMBRYOTOXICITY: NO

**OSHA:** NONE

**IARC:** 2B

MUTAGENICITY: NO

SYNERGISTIC MATERIAL: NO

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**SECTION 12: ECOLOGICAL INFORMATION**

**TOXICITY**

**AQUATIC TOXICITY: NO DATA ON THE PRODUCT ITSELF**

**ACUTE TOXICITY TO FISH- COMPONENTS**

ASPARTIC ESTER	LC50 (96 HRS): 66mg/l	SPECIES: ZEBRAFISH
ISOPHORONEDIAMINE-ISOBUTYRALDIMINE	LC50 (96 HRS): >100 mg/l	SPECIES: ZEBRAFISH
MODIFIED CARBONATE BIS-OXAZOLIDINE	LC50 (96 HRS): 9.22 mg/l	SPECIES: FATHEAD MINNOW

**ACUTE TOXICITY TO AQUATIC INVERTEBRATES: COMPONENTS**

ASPARTIC ESTER	EC50 (24 HRS): 88.6 mg/l	SPECIES: DAPHNIA MAGNA
ISOPHORONEDIAMINE-ISOBUTYRALDIMINE	EC50 (72 HRS): 22.2 mg/l	SPECIES: DAPHNIA MAGNA
MODIFIED CARBONATE BIS-OXAZOLIDINE	EC50 (48 HRS): 6.14 mg/l	SPECIES: DAPHNIA MAGNA

**ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS: COMPONENTS**

ASPARTIC ESTER	EC50 (72 HRS): 113 mg/l	SPECIES: FRESH WATER ALGAE
ISOPHORONEDIAMINE-ISOBUTYRALDIMINE	EC50 (72 HRS): 73.6 mg/l	SPECIES: FRESH WATER ALGAE
MODIFIED CARBONATE BIS-OXAZOLIDINE	ND	

**TOXICITY TO BACTERIA: COMPONENTS**

ASPARTIC ESTER	ND
ISOPHORONEDIAMINE-ISOBUTYRALDIMINE	ND
MODIFIED CARBONATE BIS-OXAZOLIDINE	ND

**CHRONIC AQUATIC TOXICITY**

**CHRONIC TOXICITY TO AQUATIC INVERTEBRATES**

LONG LASTING ADVERSE EFFECTS TO AQUATIC ORGANISMS

**PERSISTANCE AND DEGRADABILITY**

**BIODEGRADABILITY:** BASED ON STRINGENT OECD TEST GUIDELINES, THIS MATERIAL CANNOT BE CONSIDERED READILY BIODEGRADABLE; HOWEVER, THESE RESULTS DO NOT NECESSARILY MEAN THAT THE MATERIAL IS NOT BIODEGRADABLE UNDER ENVIRONMENTAL CONDITIONS.

**BIODEGRADATION:** 13%

**EXPOSURE TIME:** 28 DAYS

**METHOD:** OECD TEST GUIDELINE 301B OR EQUIVALENT

**BIOACCUMULATIVE POTENTIAL**

**BIOACCUMULATION:** ND

**PARTITION COEFFECIENT: N-OCTANOL/WATER(LOG P<sub>ow</sub>):** ND

**MOBILITY IN SOIL:** ND

**PARTITION COEFFICIANT (K<sub>oc</sub>):** ND

**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHODS:** INCINERATION IS PREFERRED. THIS PRODUCT SHOULD NOT BE ALLOWED TO ENTER DRAINS, WATER COURSES OR THE SOIL. PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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**SECTION 14: TRANSPORT INFORMATION**

**DOT PROPER SHIPPING NAME:**

AMINES, LIQUID, CORROSIVE, (BLOCKED DIAMINE,)

**HAZARD CLASS:** 8

**UN NUMBER:** UN 2735

**PACKING GROUP:** III

**IMO SHIPPING DATA:**

UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (BLOCKED DIAMINE), 8, PG III

**ICAO/IATA SHIPPING DATA:**

UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (BLOCKED DIAMINE), 8, PG III

**PASSENGER AIR MAX QUANTITY:** 5L

**PASSENGER PACKING INSTRUCTION:** 852

**CARGO AIR- MAX QUANTITY:** 60L

**CARGO AIR INSTRUCTION NUMBER:** 856

**SECTION 15: REGULATORY INFORMATION**

**VOC: COMPONENT:** 0 grams/Liter      **AS APPLIED:** 93 grams/Liter (PART OF MULTI-COMPONENT SYSTEM)

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** ALL COMPONENTS ARE LISTED IN THE TSCA CHEMICAL SUBSTANCE INVENTORY.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION and LIABILITY ACT):** ND

**SARA TITLE III**

**SECTION 312 HAZARD CLASS:** IMMEDIATE (ACUTE) HEALTH HAZARD, DELAYED (CHRONIC) HEALTH HAZARD

**SECTION 313 LISTED INGREDIENTS:** NONE ABOVE de Minimus LEVELS

**CALIFORNIA PROPOSITION 65:** THE BELOW LIST OF COMPOUNDS IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: CAS # 013463-67-7, CAS # 001333-86-4

**SECTION 16: OTHER INFORMATION**

**INITIAL ISSUE DATE:** JUNE 24, 2015

**REVISION DATE:**

**PREPARED BY:** J.W. ESSIG

**HAZARD RATING**

**HMIS:**                                      **HEALTH**    3                      **FLAMMABILITY**    1                      **REACTIVITY**    0

**LEGEND**

ACGIH:            AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS  
 OSHA:            OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION  
 STEL:            SHORT TERM EXPOSURE LIMIT  
 TWA:            TIME WEIGHTED AVERAGE  
 PEL:            PERMISSIBLE EXPOSURE LIMIT  
 TLV:            THRESHOLD LIMIT VALUE  
 NA:            NOT APPLICABLE  
 NE:            NOT ESTABLISHED  
 ND:            NO DATA

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