SAFETY DATA SHEET

FP5100A    Page 1 of 7

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 5100 PART A
COLOR: CLEAR
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
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
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

HIGH PERFORMANCE CONCRETE COATING SYSTEM
RESPONSE
P308+P313: IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION.
P303+P361+P353: 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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS</th>
<th>Wt. %</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASPARTIC ESTER</td>
<td>60-100</td>
<td>136210-32-7</td>
</tr>
<tr>
<td>ISOPHORONEDIAMINE-ISOBUTYRALDIMINE</td>
<td>15-40</td>
<td>054914-37-3</td>
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</table>

SECTION 4: FIRST AID MEASURES

GENERAL: REMOVE PERSON FROM AFFECTED AREA AND MAKE COMFORTABLE. TREAT SYMPOTOMATICALLY.

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.
SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: 85°C (185°F) – PMCC
CONDITIONS OF FLAMMABILITY: NA
FLAMMABLE LIMITS: LEL: NE  UEL: NE
HAZARDOUS COMBUSTION PRODUCTS: CO, CO₂, NH₃, 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

<table>
<thead>
<tr>
<th>INGREDIENTS (CAS)</th>
<th>OSHA</th>
<th>ACGIH</th>
<th>OTHER</th>
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<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
<td>TWA</td>
</tr>
<tr>
<td>136210-32-7</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>054914-37-3</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
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</tbody>
</table>

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.
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.
SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

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

<table>
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<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>BOILING POINT</td>
<td>260°C (500°F)</td>
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<tr>
<td>SPECIFIC GRAVITY</td>
<td>1.0-1.1</td>
</tr>
<tr>
<td>VAPOR PRESSURE</td>
<td>ND</td>
</tr>
<tr>
<td>MELTING POINT</td>
<td>0°C (32°F)</td>
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<tr>
<td>VAPOR DENSITY</td>
<td>ND</td>
</tr>
<tr>
<td>EVAPORATION RATE</td>
<td>ND</td>
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<tr>
<td>(AIR = 1)</td>
<td>(BUTYL ACETATE = 1)</td>
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<tr>
<td>SOLUBILITY IN WATER</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>pH</td>
<td>NE (ALKALINE)</td>
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<tr>
<td>COEFFICIENT of WATER/OIL DISTRIBUTION</td>
<td>ND</td>
</tr>
<tr>
<td>ODOR THRESHOLD</td>
<td>ND</td>
</tr>
<tr>
<td>APPEARANCE AND ODOR</td>
<td>CLEAR TO YELLOW LIQUID. AMMONIACAL ODOR.</td>
</tr>
<tr>
<td>% VOLATILES BY VOLUME</td>
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</tr>
<tr>
<td>% SOLIDS BY WEIGHT</td>
<td>100</td>
</tr>
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</table>

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 (REACTION): WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE: 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

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.
SECTION 11: TOXICOLOGICAL INFORMATION CON’T.

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

ACUTE DERMAL TOXICITY - COMPONENTS
- ASPARTIC ESTER: LD50: >2000 mg/kg SPECIES: RAT
- ISOPHORONEDIAMINE-ISOBUTYRALDIMINE: LD50: >5000 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

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 OSHA: NONE IARC: NONE
TERATOGENICITY: NO MUTAGENICITY: NO
EMBRYOTOXICITY: NO SYNERGISTIC MATERIAL: NO

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

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
SECTION 12: ECOLOGICAL INFORMATION

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

TOXICITY TO BACTERIA: COMPONENTS
ASPARTIC ESTER       ND
ISOPHORONEDIAMINE-ISOBUTYRALDIMINE 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 COEFFICIENT: N-OCTANOL/WATER(\log P_{ow}): ND

MOBILITY IN SOIL: ND
PARTITION COEFFICIENT (K_{OC}): ND

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: INCINERATION IS PREFERED. 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.

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

PASSSENGER AIR MAX QUANTITY: 5L       PASSSENGER PACKING INSTRUCTION: 852
CARGO AIR- MAX QUANTITY: 60L       CARGO AIR INSTRUCTION NUMBER: 856
SECTION 15: REGULATORY INFORMATION

VOC: COMPONENT: 0 grams/Liter AS APPLIED: 0 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: NONE

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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