SAFETY DATA SHEET

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: VAPORSOLVE® 100 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: HAZARDOUS
SKIN IRRITATION: CATEGORY 2
EYE IRRITATION: CATEGORY 2A
SKIN SENSITIZATION: SUB-CATEGORY 1B
GERM CELL MUTAGENICITY: CATEGORY 2
ACUTE AQUATIC TOXICITY: CATEGORY 2
CHRONIC AQUATIC TOXICITY: CATEGORY 2

GHS LABEL ELEMENTS
HAZARD PICTOGRAMS

SIGNAL WORD: WARNING!

HAZARD STATEMENTS
H315: CAUSES SKIN IRRITATION
H317: MAY CAUSE ALLERGIC SKIN REACTION
H319: CAUSES SERIOUS EYE IRRITATION
H341: SUSPECTED OF CAUSING GENETIC DEFECTS
H411: TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

PRECAUTIONARY STATEMENTS:
PREVENTION
P201: OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.
P202: DO NOT HANDLE UNTIL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD
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
SAFETY DATA SHEET

SECTION 2: HAZARDS IDENTIFICATION CON’T.

RESPONSE
P308+P313: IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION.
P302+P352: IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER
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.
P333+P313: IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION
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

OTHER HAZARDS
NO DATA AVAILABLE

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>4,4’-ISOPROPYLDIPHENOL-EPICHLOROHYDRIN COPOLYMER</td>
<td>30-60</td>
<td>025068-38-6</td>
</tr>
<tr>
<td>PHENOL-FORMALDEHYDE POLYMER GLYCIDAL ETHER</td>
<td>30-60</td>
<td>028064-14-4</td>
</tr>
<tr>
<td>O-CRESYL GLYCIDYLETHER</td>
<td>10-30</td>
<td>002210-79-9</td>
</tr>
<tr>
<td>BENZYL ALCOHOL</td>
<td>1-5</td>
<td>000100-51-6</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

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.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: 93°C (199°F) TCC

FLAMMABLE LIMITS: LEL: ND UEL: ND

OSHA CLASS: NOT REGULATED AUTO IGNITION TEMP: ND

HAZARDOUS COMBUSTION PRODUCTS: CO, CO₂, ALDEHYDES, ACIDS

SENSITIVITY TO IMPACT: ND

SENSITIVITY TO STATIC DISCHARGE: ND
SECTION 5: FIRE FIGHTING MEASURES

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: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. WATER SPRAY IS USEFUL IN COOLING FIRE-EXPOSED VESSELS AND IN DISPERsing VAPORS.

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

GENERAL: STORE IN COOL, WELL VENTILATED AREAS. KEEP AWAY FROM HEAT AND OPEN FLAMES. AVOID PROLONGED INHALATION OF HEATED VAPORS OR MISTS. AVOID PROLONGED SKIN CONTACT.

STORAGE: AVOID TEMPERATURE EXTREMES. STORE AWAY FROM EXCESSIVE HEAT, FROM SOURCES OF IGNITION AND FROM REACTIVE MATERIALS.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>INGREDIENTS (CAS)</th>
<th>OSHA</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
</tr>
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<tr>
<td>000100-51-6</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.

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>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
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</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>&gt;120°C (199°F)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.1-1.2</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>&lt; 0.13 kPa @ 20°C (68°F)</td>
</tr>
<tr>
<td>Vapour Density</td>
<td>ND</td>
</tr>
<tr>
<td>(Air = 1)</td>
<td></td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Coefficient of Water/Oil Distribution</td>
<td>ND</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Clear to hazy amber liquid, mild odor</td>
</tr>
<tr>
<td>% Volatiles by Volume</td>
<td>0%</td>
</tr>
<tr>
<td>% Solids by Weight</td>
<td>100%</td>
</tr>
<tr>
<td>pH</td>
<td>NA</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>ND</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable;

Conditions to Avoid: Not applicable (Material is stable);

Incompatibility (Material to Avoid): Oxidizing agents (perchlorates, nitrates), strong acids, hypochlorites, peroxides.

Hazardous Decomposition Products: CO, CO₂;

Hazardous Polymerization (Reactivity): Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Acute Oral Toxicity
Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.
LD₅₀, Rat >15,000 mg/kg

Acute Dermal Toxicity
Prolonged skin contact is unlikely to result in absorption of harmful amounts.
LD₅₀, Rabbit 23,000 mg/kg

Acute Inhalation Toxicity
At room temperature, exposure to vapor is minimal due to low volatility. Vapor from heated material, mist or aerosols may cause respiratory irritation.
LC₅₀ has not been determined

Skin Corrosion/Irritation
Prolonged contact may cause skin irritation with local redness.
Repeated contact may cause skin irritation with local redness.

Serious Eye Damage/Eye Irritation
May cause eye irritation.
Corneal injury is unlikely.
SECTION 11: TOXICOLOGICAL INFORMATION CON’T.

SENSITIZATION
FOR SIMILAR MATERIAL(S):
HAS CAUSED ALLERGIC SKIN REACTIONS IN HUMANS
HAS DEMONSTRATED THE POTENTIAL FOR CONTACT ALLERGY IN MICE

FOR RESPIRATORY SENSITIZATION:
NO RELEVANT DATA FOUND

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SIMPLE EXPOSURE)
EVALUATION OF AVAILABLE DATA SUGGESTS THIS MATERIAL IS NOT AN STOT-SE TOXICANT

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)
EXCEPT FOR SKIN SENSITIZATION REPEATED EXPOSURES TO LOW MOLECULAR WEIGHT EPOXY RESINS
OF THIS TYPE ARE NOT ANTICIPATED TO CAUSE ANY SIGNIFICANT ADVERSE EFFECTS.

CARCINOGENIC DATA: NTP: NONE OSHA: NONE IARC: NONE
TERATOGENICITY: NO MUTAGENICITY: YES
EMBRYOTOXICITY: NO SYNERGISTIC MATERIAL: NO

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY
ACUTE TOXICITY TO FISH
MATERIAL IS MODERATELY TOXIC TO AQUATIC ORGANISMS ON AN ACUTE BASIS (LC50/EC50
BETWEEN 1 AND 10 mg/l IN THE MOST SENSITIVE SPECIES TESTED)
LC50, ONCORHYNCHUS MYKISS (RAINBOW TROUT), SEMI-STATIC TEST. 96 HR, 2 mg/l

ACUTE TOXICITY TO AQUATIC INVERTEBRATES
EC50, DAPHNIA MAGNA (WATER FLEA), STATIC TEST, 48 HR, 1.8 mg/l

ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS
ErC50, SCENEDESMUS CAPRICORNUTUM (FRESH WATER ALGAE), STATIC TEST, 72 HR, GROWTH
RATE INHIBITION 11mg/l

TOXICITY TO BACTERIA
IC50, BACTERIA, 18 HR, RESPIRATION RATES > 42.6 mg/l

CHRONIC AQUATIC TOXICITY
CHRONIC TOXICITY TO AQUATIC INVERTEBRATES
MATC (MAXIMUM ACCEPTABLE TOXICANT LEVEL), DAPHNIA MAGNA, SEMI STATIC TEST, 21 d,
NUMBER OF OFFSPRING, 0.55 mg/l

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.
10 DAY WINDOW: NA
BIODEGRADATION: 12%
EXPOSURE TIME: 28 DAYS
METHOD: OECD TEST GUIDLINE 302B OR EQUIVALENT
THEORETICAL OXYGEN DEMAND: 2.35 mg/mg ESTIMATED

PHOTODEGRADATION
TEST TYPE: HALF-LIFE (INDIRECT PHOTOLYSIS)
SENSITIZER: OH RADICALS
ATMOSPHERIC HALF-LIFE: 1.92 HR ESTIMATED
SAFETY DATA SHEET

SECTION 12: ECOLOGICAL INFORMATION

BIOACCUMULATIVE POTENTIAL

**BIOACCUMULATION:** BIOCONCENTRATION POTENTIAL IS MODERATE (BCF BETWEEN 100 AND 3000 OR LOG POW BETWEEN 3 AND 5)

**PARTITION COEFFICIENT: N-OCTANOL/WATER (LOG P<sub>ow</sub>):** 3.242 @25°C ESTIMATED

MOBILITY IN SOIL

POTENTIAL FOR MOBILITY IN SOIL IS LOW (K<sub>oc</sub> BETWEEN 500 AND 2000)

GIVEN ITS VERY LOW HENRY’S CONSTANT, VOLATIZATION FROM NATURAL BODIES OF WATER OR MOIST SOIL IS NOT EXPECTED TO BE AN IMPORTANT FATE PROCESS

**PARTITION COEFFICIENT (K<sub>oc</sub>):** 1800-4400 ESTIMATED

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. NOT A HAZARDOUS WASTE BY RCRA CRITERIA (40 CFR 261). PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION 14: TRANSPORT INFORMATION

**DOT PROPER SHIPPING NAME:** RESIN COMPOUND, NOT REGULATED

**HAZARD CLASS:** NA

**UN NUMBER:** NA

**PACKAGING GROUP:** NA

**DOT PRODUCT RQ LBS (KGS):** NA

**HAZARD LABEL:** NA

**HAZARD PLACARD** NA

**IMO SHIPPING DATA:** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (EPOXY RESIN) , 9, PGIII

**ICAO/IATA SHIPPING DATA:** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (EPOXY RESIN) , 9, PGIII

**ADDITIONAL INFORMATION:** NONE

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**

<table>
<thead>
<tr>
<th>INITIAL ISSUE DATE: MAY 11, 2015</th>
<th>REVISION DATE:</th>
<th>PREPARED BY: J.W. ESSIG</th>
</tr>
</thead>
</table>

**HAZARD RATING**

<table>
<thead>
<tr>
<th>HMIS: HEALTH 2</th>
<th>FLAMMABILITY 1</th>
<th>REACTIVITY 2</th>
</tr>
</thead>
</table>

**LEGEND**

<table>
<thead>
<tr>
<th>ACGIH:</th>
<th>AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA:</td>
<td>OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION</td>
</tr>
<tr>
<td>STEL:</td>
<td>SHORT TERM EXPOSURE LIMIT</td>
</tr>
<tr>
<td>TWA:</td>
<td>TIME WEIGHTED AVERAGE</td>
</tr>
<tr>
<td>PEL:</td>
<td>PERMISSIBLE EXPOSURE LIMIT</td>
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<tr>
<td>TLV:</td>
<td>THRESHOLD LIMIT VALUE</td>
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<td>NA:</td>
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<td>ND:</td>
<td>NO DATA</td>
</tr>
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