SAFETY DATA SHEET

HIGH PERFORMANCE CONCRETE COATING SYSTEM

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: ALUMINUM OXIDE
CHEMICAL FAMILY: ALUMINA
MAIN USE: SLIP RESISTANT AGGREGATE

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

SECTION 2: HAZARDS IDENTIFICATION

GLOBALLY HARMONIZED SYSTEM (GHS)
CLASSIFICATION:
ACUTE TOXICITY: CATEGORY 4 (INHALATION)

GHS LABEL ELEMENTS
HAZARD PICTOGRAMS

SIGNAL WORD: WARNING!

HAZARD STATEMENTS:
H332: HARMFUL IF INHALED

PRECAUTIONARY STATEMENTS:
PREVENTION
P261: AVOID BREATHING DUST
P271: USE ONLY OUTDOORS OR IN A WELL VENTILATED AREA
P284: IN CASE OF INADEQUATE VENTILATION WEAR RESPIRATORY PROTECTION

RESPONSE
P304+P340 IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING
P314: GET MEDICAL ADVICE/ATTENTION IF YOU FEEL UNWELL

OTHER HAZARDS
NONE

EMERGENCY OVERVIEW:
MATERIAL HAS NO ODOR AND IS NOT FLAMMABLE. IT DOES NOT CAUSE BURNS OR SEVERE SKIN OR EYE IRRITATION. A SINGLE EXPOSURE WILL NOT RESULT IN SERIOUS ADVERSE HEALTH EFFECTS. ALUMINUM OXIDE IS NOT KNOWN TO BE AN ENVIRONMENTAL HAZARD
PERSONAL PROTECTIVE EQUIPMENT- RESPIRATOR- IS NOT REQUIRED UNLESS THE CONCENTRATION OF RESPIRABLE DUSTS EXCEEDS APPLICABLE OCCUPATIONAL EXPOSURE LEVELS.
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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS Wt % CAS Number
---
ALUMINUM OXIDE 60-100 001344-28-1

SECTION 4: FIRST AID MEASURES

GENERAL: MOVE OUT OF DANGEROUS AREA
EYES: FLUSH WITH WATER FOR 15 MINUTES. AVOID RUBBING. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.
SKIN: ND
INHALATION: MOVE TO FRESH AIR. GIVE ASSISTED RESPIRATION IF BREATHING HAS STOPPED OR IS LABORED (CALL A PHYSICIAN).
INGESTION: ND

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: NONE
FLAMMABLE LIMITS: LEL: ND UEL: ND
OSHA CLASS: NOT REGULATED
HAZARDOUS COMBUSTION PRODUCTS: NONE
SENSITIVITY TO IMPACT: ND
SENSITIVITY TO STATIC DISCHARGE: ND
EXTINGUISHING MEDIA: NA
SPECIAL FIRE FIGHTING PROCEDURES: NOT IGNITABLE
UNUSUAL FIRE AND EXPLOSIVE HAZARDS: NA

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: USE DUSTLESS METHODS (VACUUM) AND PLACE IN CLOSABLE CONTAINERS FOR DISPOSAL. WEAR PROTECTIVE Equipment AS SHOWN IN SECTION 8.

SECTION 7: HANDLING AND STORAGE

GENERAL: AVOID GENERATING AND BREATHING DUST. USE ONLY WITH ADEQUATE VENTILATION. KEEP CONTAINER CLOSED. WASH THOROUGHLY AFTER HANDLING.
STORAGE: STORE IN COOL, DRY SPACES. HANDLE IN MANNERS WHICH PREVENT DUST.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

EXPOSURE LIMITS (ppm)

<table>
<thead>
<tr>
<th>INGREDIENTS (CAS)</th>
<th>OSHA</th>
<th>ACGIH</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>001344-28-1</td>
<td>TWA</td>
<td>STEL</td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td>5mg/m³ ND</td>
<td>1mg/m³ ND</td>
<td>Respirable Dust</td>
</tr>
</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.
SECTION 8: EXPOSURE CONTROL/PERSOHAL PROTECTION CON’T.

RESPIRATORY PROTECTION: NONE AS REQUIRED. NIOSH-MSHA APPROVED RESPIRATORS (PAPER DISPOSABLE; ½ OR FULL FACE PIECE AIR PURIFYING; SUPPLIED AIR – DEPENDENT UPON PEL LEVELS).
<5X PEL – ANY DUST RESPIRATOR.
5<10X PEL – ANY DUST RESPIRATOR (EXCEPT SINGLE USE OR ¼ MASK). ANY FUME OR HIGH EFFICIENCY PARTICULATE FILTER RESPIRATOR.
10<50X PEL – HIGH EFFICIENCY PARTICULATE FILTER RESPIRATOR WITH FULL FACE PIECE.
50<500X PEL – POWERED AIR-PURIFYING RESPIRATOR WITH PARTICULATE FILTER.
>500X PEL - SELF-CONTAINED BREATHING APPARATUS.

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.

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILING POINT</td>
<td>2230°C (4046°F)</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>4.0</td>
</tr>
<tr>
<td>VAPOR DENSITY</td>
<td>NA</td>
</tr>
<tr>
<td>VAPOR PRESSURE</td>
<td>NA</td>
</tr>
<tr>
<td>MELTING POINT</td>
<td>NA</td>
</tr>
<tr>
<td>VAPOR DENSITY (AIR = 1)</td>
<td>NA</td>
</tr>
<tr>
<td>EVAPORATION RATE (BUTYL ACETATE = 1)</td>
<td>NA</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>INSOLUBLE</td>
</tr>
<tr>
<td>pH</td>
<td>ND</td>
</tr>
<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>GRANULAR POWDER, NO DISTINCT ODOR.</td>
</tr>
<tr>
<td>% VOLATILES BY VOLUME</td>
<td>0%</td>
</tr>
<tr>
<td>% SOLIDS BY WEIGHT</td>
<td>100%</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE;

CONDITIONS TO AVOID: NOT APPLICABLE (MATERIAL IS STABLE)

INCOMPATIBILITY (MATERIAL TO AVOID): HYDROFLUORIC ACID, FLUORINE, CHLORINE TRIFLORIDE OR OXYGEN DIFLORIDE

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

HAZARDOUS POLYMERIZATION (REACTIVITY): ND

SECTION 11: TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE: EYE CONTACT, SKIN CONTACT, INHALATION, INGESTION.

EYES:
ACUTE – MAY CAUSE IRRITATION OR INFLAMMATION. ABRASIVE TO EYES.
CHRONIC – ND

SKIN CONTACT:
ACUTE – ND
CHRONIC – ND
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**SECTION 11: TOXICOLOGICAL INFORMATION CON’T.**

**SKIN ABSORPTION:**
- **ACUTE** – ND
- **CHRONIC** – ND

**INHALATION:**
- **ACUTE** – MAY CAUSE IRRITATION.
- **CHRONIC** – PERSISTENT COUGH. SHORTNESS OF BREATH.

**INGESTION:**
- **ACUTE** – ND
- **CHRONIC** – ND

**CONDITIONS AGGRAVATED BY EXPOSURE:** PROLONGED INHALATION OF ANY DUST PARTICULATE MAY AGGRAVATE RESPIRATORY MEDICAL CONDITIONS.

**ACUTE TOXICITY**
- **ACUTE ORAL TOXICITY:** LD50: >10,000 mg/kg **SPECIES:** RAT
- **ACUTE DERMAL TOXICITY:** ND
- **ACUTE INHALATION TOXICITY:** LC50 (4 HR): > 2.6mg/l **SPECIES:** RAT

**SKIN CORROSION/IRRITATION**
- REPEATED OR PROLONGED SKIN CONTACT MAY LEAD TO IRRITATION

**SERIOUS EYE DAMAGE/EYE IRRITATION**
- MAY BE AN EYE IRRITANT. EXPOSURE TO THE DUST MAY CAUSE DISCOMFORT DUE TO PARTICULATE NATURE. MAY CAUSE PHYSICAL IRRITATION TO THE EYES

**SENSITIZATION**
- NON-SENSITIZER

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

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

**CARCINOGENIC DATA:**
- **NTP:** YES
- **OSHA:** NO
- **IARC:** NO
- **TERATOGENICITY:** ND
- **MUTAGENICITY:** ND
- **EMBRYOTOXICITY:** ND
- **SYNERGISTIC MATERIAL:** ND

**OVEREXPOSURE EFFECTS:** COUGH, CHEST PAIN, DIFFICULTY IN BREATHING, GASTROINTESTINAL DISTURBANCE

**SECTION 12: ECOLOGICAL INFORMATION**

**TOXICITY:** NO TOXICITY AT THE LIMIT OF SOLUBILITY

**PERSISTANCE AND DEGRADABILITY:** NOT APPLICABLE TO INORGANIC SUBSTANCES

**BIOACCUMULATIVE POTENTIAL:** DOES NOT BIOACCUMULATE

**MOBILITY IN SOIL:** ND

**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHODS:** DISPOSE IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS.
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SECTION 14: TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: 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: NOT REGULATED
ICAO/IATA SHIPPING DATA: NOT REGULATED

SECTION 15: REGULATORY INFORMATION

VOC: = 0 gms/Liter

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: ACUTE HEALTH HAZARD, CHRONIC HEALTH HAZARD
SECTION 313 LISTED INGREDIENTS: ALUMINUM OXIDE

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: AUGUST 20, 2015
REVISION DATE: PREPARED BY: J.W. ESSIG

HAZARD RATING
HMIS: HEALTH 2 FLAMMABILITY 0 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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