

## SAFETY DATA SHEET

ACID STAIN

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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: APF ACID STAIN  
CHEMICAL FAMILY: HYDROCHLORIC ACID  
MAIN USE: REACTIVE CONCRETE STAIN

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

### SECTION 2: HAZARDS IDENTIFICATION

#### GLOBALLY HARMONIZED SYSTEM (GHS) CLASSIFICATION:

#### **VINTAGE UMBER AND BUCKSKIN COLORS**

SKIN CORROSION: CATEGORY 1B  
ACUTE TOXICITY: CATEGORY 3

#### GHS LABEL ELEMENTS HAZARD PICTOGRAMS



SIGNAL WORD: DANGER!

#### HAZARD STATEMENTS:

H301: TOXIC IF SWALLOWED  
H312: HARMFUL IN CONTACT WITH SKIN  
H314: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE  
H332: HARMFUL IF INHALED  
H290: MAY BE CORROSIVE TO METAL

#### PRECAUTIONARY STATEMENTS:

##### PREVENTION

P280: WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION  
P270: DO NOT EAT, DRINK, OR SMOKE WHILE USING THIS PRODUCT  
P271: USE ONLY OUTDOORS OR IN WELL VENTILATED AREA  
P284: (IN CASE OF INADEQUATE VENTILATION) WEAR RESPIRATORY PROTECTION  
P260: DO NOT BREATHE DUST/FUME/GAS/MIST/VAPORS/SPRAY  
P273: AVOID RELEASE TO THE ENVIRONMENT  
P264: WASH SKIN THOROUGHLY AFTER HANDLING

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### SECTION 2: HAZARDS IDENTIFICATION CON'T.

**PRECAUTIONARY STATEMENTS:**

**RESPONSE**

P308+P313: IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION.  
 P303+P352: **IF ON SKIN (OR HAIR):** WASH WITH PLENTY OF SOAP AND WATER  
 P333+P311: IF SKIN IRRITATION OR RASH OCCURS: CALL A POISON CENTER OR DOCTOR/PHYSICIAN  
 P304+P340 + P310: **IF INHALED:** REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING. IMMEDIATELY CALL A **POISON CENTER** OR DOCTOR/PHYSICIAN  
 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.  
 P301+P310: **IF SWALLOWED;** IMMEDIATELY CALL A **POISON CENTER** OR DOCTOR/PHYSICIAN

**STORAGE**

P220: KEEP/STORE AWAY FROM CLOTHING  
 P233: KEEP CONTAINER TIGHTLY CLOSED

**DISPOSAL**

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

**GREEN, BLUE, TEAL AND BRONZE COLORS**

**SKIN CORROSION:** CATEGORY 1B

**ACUTE TOXICITY:** CATEGORY 3

**ACUTE AQUATIC TOXICITY:** CATEGORY 1

**CHRONIC AQUATIC TOXICITY:** CATEGORY 2

**GHS LABEL ELEMENTS**

**HAZARD PICTOGRAMS**



**SIGNAL WORD:** DANGER!

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 H314: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE  
 H332: HARMFUL IF INHALED  
 H290: MAY BE CORROSIVE TO METALS  
 H410: VERY TOXIC TO AQUATIC LIFE WITH LONG-LASTING EFFECTS

**PRECAUTIONARY STATEMENTS:**

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**ALL OTHER COLORS**

**SKIN CORROSION:** CATEGORY 1B  
**ACUTE TOXICITY:** CATEGORY 3  
**ACUTE AQUATIC TOXICITY:** CATEGORY 1  
**ACUTE DERMAL TOXICITY:** CATEGORY 4  
**GERM CELL MUTAGENICITY:** CATEGORY 1B  
**REPRODUCTIVE TOXICITY:** CATEGORY 1B

**GHS LABEL ELEMENTS**

**HAZARD PICTOGRAMS**



**SIGNAL WORD:** DANGER!

**HAZARD STATEMENTS:**

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 H332: HARMFUL IF INHALED  
 H290: MAY BE CORROSIVE TO METAL  
 H351: SUSPECTED OF CAUSING CANCER  
 H451: SUSPECTED OF CAUSING GENETIC DEFECTS  
 H400: VERY TOXIC TO AQUATIC LIFE

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

**PREVENTION**

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<b>SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS</b>
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COLOR	COMPONENT	CAS NO.	WEIGHT %
GREEN, BLUE, TEAL, BRONZE	HYDROCHLORIC ACID	007647-01-0	1-5
	CUPRIC CHLORIDE	010125-13-0	10-30
WALNUT	HYDROCHLORIC ACID	007647-01-0	1-5
	FERRIC CHLORIDE	010025-77-1	5-10
	MANGANESE CHLORIDE	013446-34-9	5-10
	SODIUM DICHROMATE	007789-12-0	7-15
TERRACOTTA	HYDROCHLORIC ACID	007647-01-0	1-5
	FERRIC CHLORIDE	010025-77-1	10-30
	FERROUS CHLORIDE	013478-10-9	10-30
COLA	FERRIC CHLORIDE	010025-77-1	15-40
	SODIUM DICHROMATE	007789-12-0	7-15
BLACK	HYDROCHLORIC ACID	007647-01-0	1-5
	FERROUS CHLORIDE	013478-10-9	7-15
	MANGANESE CHLORIDE	013446-34-9	10-30
	SODIUM DICHROMATE	007789-12-0	7-15
VINTAGE UMBER	HYDROCHLORIC ACID	007647-01-0	1-5
	FERRIC CHLORIDE	010025-77-1	10-30
	MANGANESE CHLORIDE	013446-34-9	10-30
BUCKSKIN	HYDROCHLORIC ACID	007647-01-0	1-5
	FERROUS CHLORIDE	013478-10-9	10-30

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### SECTION 4: FIRST AID MEASURES

**GENERAL:** REMOVE AFFECTED PERSON FROM AREA. TREAT SYMPTOMATICALLY.

**EYES:** IMMEDIATE AND CONTINUOUS IRRIGATION WITH FLOWING WATER FOR AT LEAST 30 MINUTES IS IMPERATIVE. SEEK MEDICAL ATTENTION.

**SKIN:** IMMEDIATE AND CONTINUOUS IRRIGATION WITH FLOWING WATER FOR AT LEAST 30 MINUTES IS INDICATED. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

**INHALATION:** MOVE TO FRESH AIR. IF BREATHING REMAINS OR BECOMES LABORED, SEEK MEDICAL ATTENTION.

**INGESTION:** GIVE 3 – 4 GLASSES OF MILK OR WATER. **DO NOT INDUCE VOMITING.** SEEK MEDICAL ATTENTION.

### SECTION 5: FIRE FIGHTING MEASURES

**FLASH POINT:** NA

**OSHA CLASS:** NONE SHOWN

**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>,

**SENSITIVITY TO STATIC DISCHARGE:** NONE

**EXTINGUISHING MEDIA:** WATER, CO<sub>2</sub>, DRY CHEMICAL

**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:** RELEASES HYDROGEN CHLORIDE GAS WHEN HEATED. ALSO REACTS WITH MOST METALS TO RELEASE HYDROGEN GAS WHICH CAN FORM EXPLOSIVE MIXTURE WITH AIR

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** COVER SPILLS WITH ABSORBENT. NEUTRALIZE SPILLS WITH LIME, SODIUM BICARBONATE OR CRUSHED LIMESTONE. PREVENT ENTRY INTO SEWERS, STORM DRAINS, 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:** STORE BETWEEN 40°F AND 100°F PROTECTED FROM FROST AND DIRECT SUNLIGHT.

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### SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

INGREDIENTS (CAS)	<u>EXPOSURE LIMITS (ppm)</u>				OTHER
	OSHA		ACGIH		
	TWA	STEL	TWA	STEL	
007647-01-0	5	NE	5	NE	
010025-77-1	ND	ND	1.0mg/m <sup>3</sup>	ND	
007789-12-0	0.005mg/m <sup>3</sup>	ND	0.05mg/m <sup>3</sup>	ND	
010125-13-0	1.0mg/m <sup>3</sup>	ND	1.0mg/m <sup>3</sup>	ND	
013478-10-9	ND	ND	1.0mg/m <sup>3</sup>	ND	
013446-34-9	1.0mg/m <sup>3</sup>	ND	200	ND	

**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.

**PROTECTIVE GLOVES:** NITRILE RUBBER

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

**OTHER PROTECTIVE EQUIPMENT:** WEAR CHEMICALLY PROTECTIVE GLOVES, BOOTS, APRONS AND GAUNTLETS TO PREVENT PROLONGED OR REPEATED SKIN CONTACT. EMERGENCY EYE WASH STATIONS SHOULD BE READILY ACCESSIBLE.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT:** >100°C (>212° F)

**SPECIFIC GRAVITY:** 1.00-1.30

**VAPOR PRESSURE:** < 10<sup>-5</sup> mm HG @ 20°C

**MELTING POINT:** ND

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

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

**SOLUBILITY IN WATER:** SOLUBLE

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

**ODOR THRESHOLD:** ND

**APPEARANCE AND ODOR:** COLORED LIQUID, CHLORIDE ODOR

### SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** STABLE

**CONDITIONS TO AVOID:** AVOID ELEVATED TEMPERATURES

**INCOMPATIBILITY (MATERIAL TO AVOID):** CONTACT WITH COMMON METALS, INCLUDING ALUMINUM OR MAGNESIUM.

**HAZARDOUS DECOMPOSITION PRODUCTS:** MAY FORM TOXIC AND HAZARDOUS GASES INCLUDING FUMES OF HYDROGEN CHLORIDE.

**HAZARDOUS POLYMERIZATION (REACTIVITY):** WILL NOT OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.

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<b>SECTION 11: TOXICOLOGICAL INFORMATION</b>
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**PRIMARY ROUTES OF ENTRY:** EYE CONTACT, SKIN CONTACT, INHALATION, INGESTION.

**HEALTH HAZARDS (ACUTE AND CHRONIC EXPOSURES)**

**EYES:** MAY CAUSE SEVERE IRRITATION, IMPAIRMENT AND PERMANENT DAMAGE.

**SKIN CONTACT:** SEVERE IRRITATION, INFLAMMATION, ULCERATION, NECROSIS AND BURNS WITH PERMANENT DAMAGE

**SKIN ABSORPTION:** ND

**INHALATION:** – BURNING SENSATION IN THROAT, ESOPHAGUS AND STOMACH WITH CONSEQUENT PAIN, UNEASINESS.

**INGESTION:** NAUSEA, VOMITING, DIARRHEA, CHILLS AND INTENSE THIRST

**CONDITIONS AGGRAVATED BY EXPOSURE:** NONE KNOWN.

**OVEREXPOSURE EFFECTS:** IRRITATION

IRRITANCY: YES

SENSITIZER: NO

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

**ACUTE ORAL TOXICITY- COMPONENTS**

SODIUM DICHROMATE	LD50(4 HR): 51 mg/kg	SPECIES: RAT
CUPRIC CHLORIDE	LD50(4 HR): 584 mg/kg	SPECIES: RAT
MANGANESE CHLORIDE	LD50(4 HR): 1484 mg/kg	SPECIES: RAT
FERRIC CHLORIDE	LD50(4 HR): 316 mg/kg	SPECIES: RAT
HYDROCHLORIC ACID	LD50(4 HR): 900 mg/kg	SPECIES: RABBIT

**ACUTE DERMAL TOXICITY- COMPONENTS**

SODIUM DICHROMATE	LD50: 1000 mg/kg	SPECIES: RABBIT
HYDROCHLORIC ACID	LD50: > 5010 mg/kg	SPECIES: RABBIT

**ACUTE INHALATION TOXICITY- COMPONENTS**

SODIUM DICHROMATE	LC50(4 HR): 124 mg/kg	SPECIES: RAT
HYDROCHLORIC ACID	LC50(30 MIN): 6400 mg/kg	SPECIES: RAT

**SKIN CORROSION/IRRITATION**

SEVERELY IRRITATING, RABBIT

**SERIOUS EYE DAMAGE/EYE IRRITATION**

SEVERELY IRRITATING, RABBIT

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

ND

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

ND

**GERM CELL MUTAGENICITY:**

ANIMAL TESTING ON THIS SUBSTANCE INDICATE POSSIBLE MUTAGEN; TESTS ON BACTERIAL AND MAMMALIAN CELL CULTURES DID NOT SHOW MUTAGENIC EFFECTS.

**CARCINOGENIC DATA:**      NTP: YES                      OSHA: NO                      IARC: YES (1A)

**REPRODUCTIVE TOXICITY:**

SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. AVOID EXPOSURE TO WOMAN DURING EARLY PREGNANCY.

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**SECTION 12: ECOLOGICAL INFORMATION**

**TOXICITY**

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

**ACUTE TOXICITY TO FISH- COMPONENTS**

SODIUM DICHROMATE	LC50 (96 HRS): 31 mg/l	SPECIES: FATHEAD MINNOW
FERRIC CHLORIDE	LC50 (96 HRS): 6 mg/l	SPECIES: STRIPED BASS
HYDROCHLORIC ACID	LC50 (96 HRS): 282 mg/l	SPECIES: MOSQUITO FISH

**ACUTE TOXICITY TO AQUATIC INVERTEBRATES: COMPONENTS**

FERRIC CHLORIDE	EC50 (96 HRS): 6 mg/l	SPECIES: DAPHNIA MAGNA
HYDROCHLORIC ACID	EC50 (48 HRS): 100-300 mg/l	SPECIES: SHRIMP, SALT WATER

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

ND

**ACUTE TOXICITY TO BACTERIA: COMPONENTS**

ND

**CHRONIC AQUATIC TOXICITY:** ND

**PERSISTANCE AND DEGRADABILITY**

ND

**BIOACCUMULATIVE POTENTIAL**

**BIOACCUMULATION:** POTENTIAL FOR BIOACCUMULATION OF METALS

**MOBILITY IN SOIL:** HIGHLY MOBILE IN WET SOIL

**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHODS:** 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:** UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID ), 8, PG III

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

**HAZARD LABEL:** CORROSIVE LIQUID

**HAZARD PLACARD:** CORROSIVE LIQUID

**IMO SHIPPING DATA:** UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID ), 8, PG III

**ICAO/IATA SHIPPING DATA:** UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID ), 8, PG III

**PASSENGER AIR MAX QUANTITY:** 1L

**PASSENGER PACKING INSTRUCTION:** 851

**CARGO AIR- MAX QUANTITY:** 30L

**CARGO AIR INSTRUCTION NUMBER:** 855



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<b>SECTION 15: REGULATORY INFORMATION</b>
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**MATERIAL VOC** = 0 gram / liter

**COATING VOC** = 0 gram/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:** IMMEDIATE (ACUTE) HEALTH HAZARD, DELAYED (CHRONIC) HEALTH HAZARD

**SECTION 313 LISTED INGREDIENTS:** HYDROCHLORIC ACID, MANGANESE CHLORIDE, SODIUM DICHROMATE, CUPRIC CHLORIDE

**CALIFORNIA PROPOSITION 65:** THE BELOW LIST OF COMPOUNDS IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: CHROMIUM (HEXAVALENT COMPOUNDS) CONTAINED IN BLACK, COLA AND WALNUT

<b>SECTION 16: OTHER INFORMATION</b>
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**INITIAL ISSUE DATE:** OCTOBER 24, 2015

**REVISION DATE:**

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

**HAZARD RATING**

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

**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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