

SAFETY DATA SHEET

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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: S-4000 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



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H332: HARMFUL IF INHALED

H290: MAY BE CORROSIVE TO METALS

H410: VERY TOXIC TO AQUATIC LIFE WITH LONG-LASTING EFFECTS

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SPECIALIZED FLOOR COATINGS & DECORATIVE CONCRETE SYSTEMS

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DISPOSAL

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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



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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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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
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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, CO₂,

SENSITIVITY TO STATIC DISCHARGE: NONE

EXTINGUISHING MEDIA: WATER, CO₂, 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 ³	ND	
007789-12-0	0.005mg/m ³	ND	0.05mg/m ³	ND	
010125-13-0	1.0mg/m ³	ND	1.0mg/m ³	ND	
013478-10-9	ND	ND	1.0mg/m ³	ND	
013446-34-9	1.0mg/m ³	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: < 10⁻⁵ 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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SECTION 11: TOXICOLOGICAL INFORMATION

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

PERSISTENCE 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

SECTION 15: REGULATORY INFORMATION

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

SECTION 16: OTHER INFORMATION

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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