

SAFETY DATA SHEET

FP250AREG00X

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

MANUFACTURER'S NAME / ADDRESS

ARIZONA POLYMER FLOORING
7731 N. 68TH AVE.
GLENDALE, AZ 85303

TRADE NAME: POLYURETHANE 250 SATIN 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:

ASPIRATION HAZARD: CATEGORY 1

FLAMMABLE LIQUIDS: CATEGORY 2

ACUTE TOXICITY: CATEGORY 4 (INHALATION-MIST)

SKIN CORROSION: CATEGORY 2

EYE DAMAGE: CATEGORY 2A

RESPIRATORY SENSITIZATION: CATEGORY 1

SKIN SENSITIZATION: CATEGORY 1

CARCINOGENICITY: CATEGORY 2

ACUTE AQUATIC TOXICITY: CATEGORY 2

GHS LABEL ELEMENTS

HAZARD PICTOGRAMS



SIGNAL WORD: DANGER!

HAZARD STATEMENTS:

H226: FLAMMABLE LIQUID AND VAPOR

H319: CAUSES SERIOUS EYE IRRITATION

H315: CAUSES SKIN IRRITATION

H332: HARMFUL IF INHALED

H334: MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED

H317: MAY CAUSE AN ALLERGIC SKIN REACTION

H304: MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAY

H335: MAY CAUSE RESPIRATORY IRRITATION

H351: SUSPECTED OF CAUSING CANCER

H373: MAY CAUSE DAMAGE TO ORGANS (AUDITORY ORGAN) THROUGH PROLONGED OR REPEATED EXPOSURE

H402: HARMFUL TO AQUATIC LIFE

PRECAUTIONARY STATEMENTS:

PREVENTION

P280: WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION

P271: USE ONLY OUTDOORS OR IN WELL VENTILATED AREA

SPECIALIZED FLOOR COATINGS & DECORATIVE CONCRETE SYSTEMS

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SECTION 2: HAZARDS IDENTIFICATION CON'T.

P260: DO NOT BREATHE DUST/GAS/MIST/VAPORS
P210: KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES, AND HOT SURFACES. NO SMOKING
P273: AVOID RELEASE TO THE ENVIRONMENT
P284: (IN CASE OF INADEQUATE VENTILATION) WEAR RESPIRATORY PROTECTION.
P240: GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT
P241: USE EXPLOSION-PROOF ELECTRICAL, VENTILATING AND LIGHTING EQUIPMENT
P242: USE ONLY NON-SPARKING TOOLS
P243: TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE
P272: CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE
P264 WASH WITH PLENTY OF WATER AND SOAP THOROUGHLY AFTER HANDLING

RESPONSE

P303+P361+353: **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.
P337+P313: **IF EYE IRRITATION PERSISTS:** GET MEDICAL ADVICE/ATTENTION
P304+P341+P311: **IF INHALED:** IF BREATHING IS DIFFICULT REMOVE TO AND MAKE COMFORTABLE FOR BREATHING. CALL A POISON CENTER OR DOCTOR/PHYSICIAN
P301+P310: **IF SWALLOWED:** IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN
P331: **DO NOT** INDUCE VOMITING
P370+P378: IN CASE OF FIRE: USE DRY CHEMICAL, CARBON DIOXIDE (CO₂), FOAM, OR WATER SPRAY (FOR LARGE FIRES) TO EXTINGUISH

STORAGE

P403+P235: STORE IN A WELL-VENTILATED PLACE. KEEP COOL
P233: KEEP CONTAINER TIGHTLY CLOSED

DISPOSAL

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

OTHER HAZARDS

NO DATA AVAILABLE

EMERGENCY OVERVIEW:

DANGER!
HARMFUL OR FATAL IF SWALLOWED
HARMFUL IF INHALED
RESPIRATORY SENSITIZER
CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING
ORGANS: BLOOD, KIDNEYS, LIVER, GASTROINTESTINAL TRACT,
RESPIRATORY TRACT, SKIN, NERVOUS SYSTEM, EYE, LENS OR CORNEA
FLAMMABLE LIQUID AND VAPOR
VAPOR MAY CAUSE FLASH FIRE
MAY BE HARMFUL IF ABSORBED THROUGH SKIN
SKIN SENSITIZER
POSSIBLE CANCER HAZARD
CONTAINS MATERIAL WHICH CAN CAUSE CANCER

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>HAZARDOUS INGREDIENTS</u>	<u>Wt. %</u>	<u>CAS Number</u>
XYLENE-MIXED ORTHO, META AND PARA ISOMERS	15-40	001330-20-7
ACETONE	7-15	000067-64-1
SILICON DIOXIDE (AMORPHOUS)	1-5	112945-52-5
ETHYLBENZENE	0.1-1.0	000100-41-4

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: -20°C (-4°F) TCC (ACETONE)

CONDITIONS OF FLAMMABILITY: NA

FLAMMABLE LIMITS: (ACETONE) **LEL:** 2.6% **UEL:** 12.8%

OSHA CLASS: FLAMMABLE LIQUID, PACKING GROUP II

AUTO IGNITION TEMP: 465°C (869°F)

HAZARDOUS COMBUSTION PRODUCTS: CO, CO₂, ALDEHYDES, ACIDS

SENSITIVITY TO IMPACT: ND

SENSITIVITY TO STATIC DISCHARGE: ND

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. SOLVENT VAPORS MAY BE HEAVIER THAN AIR. UNDER CONDITIONS OF STAGNANT AIR, VAPORS MAY BUILD UP AND TRAVEL ALONG THE GROUND TO AN IGNITION SOURCE.

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.

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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. USE NON-SPARKING TOOLS AND GROUNDING CABLES WHEN TRANSFERRING. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY.

STORAGE: AVOID TEMPERATURE EXTREMES. STORE AWAY FROM EXCESSIVE HEAT, FROM SOURCES OF IGNITION AND FROM REACTIVE MATERIALS. MATERIAL CAN BURN; LIMIT INDOOR STORAGE TO AREAS EQUIPPED WITH AUTOMATIC SPRINKLERS. STORE OUT OF DIRECT SUNLIGHT IN A COOL PLACE. KEEP CONTAINERS TIGHTLY CLOSED. GROUND ALL METAL CONTAINERS DURING STORAGE AND HANDLING.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

INGREDIENTS (CAS)	<u>EXPOSURE LIMITS (ppm)</u>				OTHER
	OSHA		ACGIH		
	TWA	STEL	TWA	STEL	
001330-20-7	100	150	100	150	
000067-64-1	750	NE	750	NE	
112945-52-5	NE	NE	NE	NE	
000100-41-4	100	125	100	125	

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: EXHAUST VENTILATION SUFFICIENT TO KEEP AIRBORNE CONCENTRATION OF THE SOLVENTS BELOW THEIR RESPECTIVE TLV'S. EXHAUST AIR MAY NEED TO BE CLEANED BY SCRUBBERS OR FILTERS TO REDUCE ENVIRONMENTAL CONTAMINATION.

PROTECTIVE GLOVES: NITRILE RUBBER

EYE PROTECTION: SPLASH-PROOF GOGGLES OR CHEMICAL SAFETY GLASSES

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.

OTHER PROTECTIVE EQUIPMENT: LONG SLEEVED SHIRTS AND TROUSERS. EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE READILY ACCESSIBLE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 56.2°C (133.2°F) (ACETONE)	SPECIFIC GRAVITY: 0.95-1.05
VAPOR PRESSURE: 180mm Hg (ACETONE)	MELTING POINT: ND
VAPOR DENSITY: 2.0 (AIR = 1)	EVAPORATION RATE: >1 (BUTYL ACETATE = 1)
SOLUBILITY IN WATER: INSOLUBLE	pH: NA
COEFFICIENT of WATER/OIL DISTRIBUTION: ND	ODOR THRESHOLD: ND
APPEARANCE AND ODOR: HAZY LIQUID, SWEET SOLVENT ODOR	
% VOLATILES BY VOLUME: 62%	%SOLIDS BY WEIGHT: 47%

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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

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

EYES:

ACUTE – LIQUID, AEROSOLS OR VAPORS ARE SEVERELY IRRITATING AND CAN CAUSE PAIN, TEARING, REDDENING AND SWELLING. IF LEFT UNTREATED, CORNEAL DAMAGE CAN OCCUR AND INJURY IS SLOW TO HEAL. HOWEVER, DAMAGE IS USUALLY REVERSIBLE

CHRONIC – PROLONGED VAPOR CONTACT MAY CAUSE CONJUNCTIVITIS

SKIN CONTACT:

ACUTE – REPEATED OR PROLONGED SKIN CONTACT CAN RESULT IN DRY, DEFATTED AND CRACKED SKIN CAUSING INCREASED SUSCEPTIBILITY TO INFECTION. IN ADDITION IRRITATION MAY DEVELOP INTO DERMATITIS. SOLVENTS CAN PENETRATE THE SKIN AND MAY CAUSE EFFECTS SIMILAR TO THOSE IDENTIFIED UNDER ACUTE INHALATION SYMPTOMS.

CHRONIC – MAY CAUSE EFFECTS SIMILAR TO THOSE IDENTIFIED UNDER CHRONIC INHALATION EFFECTS.

SKIN ABSORPTION:

ACUTE – ND

CHRONIC – ND

INHALATION:

ACUTE – SOLVENT VAPORS ARE IRRITATING TO THE EYES NOSE AND THROAT. SYMPTOMS OF IRRITATION MAY INCLUDE RED, ITCHY EYES, DRYNESS OF THE THROAT AND A FEELING OF TIGHTNESS IN THE CHEST. OTHER POSSIBLE SYMPTOMS OF OVEREXPOSURE INCLUDE: HEADACHE, DIZZINESS, NAUSEA, NARCOSIS FATIGUE AND LOSS OF APPETITE. PERSONS EXPOSED TO 200 PPM OF XYLENE EXPERIENCED EYE, NOSE AND THROAT IRRITATION. CONCENTRATIONS OF 10,000 PPM OF XYLENE CAN BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH

INHALATION:

CHRONIC – CHRONIC EXPOSURE TO ORGANIC SOLVENTS HAS BEEN ASSOCIATED WITH VARIOUS NEUROTOXIC EFFECTS INCLUDING PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. SYMPTOMS INCLUDE LOSS OF MEMORY, LOSS OF INTELLECTUAL ABILITY AND LOSS OF COORDINATION.

INGESTION:

ACUTE – CAN RESULT IN IRRITATION OF THE DIGESTIVE TRACT. SYMPTOMS CAN INCLUDE SORE THROAT ABDOMINAL PAIN NAUSEA, VOMITING AND DIARRHEA. VOMITING MAY CAUSE ASPIRATION OF SOLVENT RESULTING IN CHEMICAL PNEUMONITIS

CHRONIC – ND

CONDITIONS AGGRAVATED BY EXPOSURE: SKIN DISORDERS AND ALLERGIES.

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SECTION 11: TOXICOLOGICAL INFORMATION CON'T.

ACUTE TOXICITY: NO DATA ON THE PRODUCT ITSELF

ACUTE ORAL TOXICITY- COMPONENTS

ACETONE	NOT CLASSIFIED FOR ACUTE TOXICITY	
XYLENE	LD50: 3523 mg/kg	SPECIES: RAT
ETHYL BENZENE	LD50: 3500 mg/kg	SPECIES: RAT

ACUTE DERMAL TOXICITY- COMPONENTS

ACETONE	NOT CLASSIFIED FOR ACUTE TOXICITY	
XYLENE	LD50: >4300 mg/kg	SPECIES: RAT
ETHYL BENZENE	LD50: 17800 mg/kg	SPECIES: RAT

ACUTE INHALATION TOXICITY- COMPONENTS

ACETONE	LC50: 76 mg/l
XYLENE	LC50: >6350 ppm
OECD TEST GUIDELINE 403	

SKIN CORROSION/IRRITATION

SLIGHTLY IRRITATING, RABBIT, OECD TEST GUIDELINE 404

SERIOUS EYE DAMAGE/EYE IRRITATION

SEVERE IRRITANT, 20mg (rabbit)

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)

CATEGORY 3 (IRRITATING TO RESPIRATORY SYSTEM)

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)

CATEGORY 2

CARCINOGENIC DATA: THIS PRODUCT CONTAINS XYLENE, ETHYLBENZENE IN CONCENTRATIONS OF 0.1% OR GREATER. IARC HAS CLASSIFIED ETHYL BENZENE AS GROUP 2B (THE AGENT IS POSSIBLY CARCINOGENIC TO HUMANS). NTP LISTED CARCINOGEN

TERATOGENICITY: YES
EMBRYOTOXICITY: ND

MUTAGENICITY: ND
SYNERGISTIC MATERIAL: ND

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY

AQUATIC TOXICITY: NO DATA ON THE PRODUCT ITSELF. BASED ON THE COMPONENTS THE PRODUCT IS ACUTELY HARMFUL FOR AQUATIC ORGANISMS.

ACUTE TOXICITY TO FISH- COMPONENTS

ACETONE	LC50 (2 HRS): 7081 mg/l	SPECIES: FATHEAD MINNOW
XYLENE	LC50 (96 HRS): 9.6 mg/l	SPECIES: BLUEGILL
ETHYL BENZENE	LC50 (96 HRS): 11 mg/l	SPECIES: FATHEAD MINNOW

ACUTE TOXICITY TO AQUATIC INVERTEBRATES: COMPONENTS

ACETONE	EC50 (24 HRS): >100 mg/l	SPECIES: DAPHNIA MAGNA
XYLENE	ND	
ETHYL BENZENE	EC50 (48 HRS): 4.4 mg/l	SPECIES: DAPHNIA MAGNA

ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS: COMPONENTS

ACETONE	ND
XYLENE	ND
ETHYL BENZENE	ND

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SECTION 12: ECOLOGICAL INFORMATION CON'T.

TOXICITY TO BACTERIA: COMPONENTS

ACETONE	ND
XYLENE	ND
ETHYL BENZENE	ND

CHRONIC AQUATIC TOXICITY
CHRONIC TOXICITY TO AQUATIC INVERTEBRATES
 LONG LASTING ADVERSE EFFECTS TO AQUATIC ORGANISMS

PERSISTANCE AND DEGRADABILITY

BIODEGRADABILITY: NOT READILY BIODEGRADABLE (BY OECD CRITERIA)

BIOACCUMULATIVE POTENTIAL

BIOACCUMULATION: ND
PARTITION COEFFECIENT: N-OCTANOL/WATER(LOG Pow): ND

MOBILITY IN SOIL

ND

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: INCINERATION IS PREFERRED. 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: UN1866, RESIN SOLUTION, FLAMMABLE, (CONTAINS ACETONE), 3, PG II

PACKING GROUP: II **DOT PRODUCT RQ LBS (KGS):** NA

HAZARD LABEL: FLAMMABLE LIQUID **HAZARD PLACARD:** FLAMMABLE LIQUID

IMO SHIPPING DATA: UN1866, RESIN SOLUTION, FLAMMABLE, (CONTAINS ACETONE), 3, PG II

ICAO/IATA SHIPPING DATA: UN1866, RESIN SOLUTION, FLAMMABLE, (CONTAINS ACETONE), 3, PG II

PASSENGER AIR MAX QUANTITY: 5L **PASSENGER PACKING INSTRUCTION:** 353

CARGO AIR- MAX QUANTITY: 60L **CARGO AIR INSTRUCTION NUMBER:** 364

SECTION 15: REGULATORY INFORMATION

VOC: COMPONENT = 453 gms/Liter AS APPLIED (Part of a multi-component system) = 504 gms/Liter

TSCA (TOXIC SUBSTANCE CONTROL ACT): ALL COMPONENTS ARE LISTED IN THE TSCA CHEMICAL SUBSTANCE INVENTORY.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION and LIABILITY ACT): REPORTABLE QUANTITY, XYLENE 100 LBS.

SARA TITLE III

SECTION 312 HAZARD CLASS: IMMEDIATE (ACUTE) HEALTH HAZARD, DELAYED HEALTH HAZARD; FIRE HAZARD.

SECTION 313 LISTED INGREDIENTS: XYLENE (CAS #001330-20-7), ETHYLBENZENE (CAS #000100-41-4)

CALIFORNIA PROPOSITION 65: The below list of compounds is known to the State of California to cause cancer, birth defects or other reproductive harm: CAS #001330-20-7, CAS #000100-41-4.

