

## SAFETY DATA SHEET

FCASCRA\_\_

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

#### MANUFACTURER'S NAME / ADDRESS

**ARIZONA POLYMER FLOORING**  
7731 N. 68<sup>TH</sup> AVE.  
GLENDALE, AZ 85303

**TRADE NAME:** CASTORCRETE® PART A  
**CHEMICAL FAMILY:** POLYURETHANE EMULSION  
**MAIN USE:** SPECIALTY FLOOR COATING RESIN

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

### SECTION 2: HAZARDS IDENTIFICATION

#### GLOBALLY HARMONIZED SYSTEM (GHS)

##### CLASSIFICATION:

**REPRODUCTIVE TOXICITY:** CATEGORY 1B

**ACUTE AQUATIC TOXICITY:** CATEGORY 1

**CHRONIC AQUATIC TOXICITY:** CATEGORY 1

#### GHS LABEL ELEMENTS

##### HAZARD PICTOGRAMS



**SIGNAL WORD:** DANGER!

#### HAZARD STATEMENTS:

H360: MAY DAMAGE FERTILITY OR THE UNBORN CHILD

H410: VERY 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

P281: USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED

P273: AVOID RELEASE TO THE ENVIRONMENT

P308+P313: IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE

##### RESPONSE

P264: WASH THOROUGHLY AFTER USE

P391: COLLECT SPILLAGE

##### STORAGE

P405: STORE LOCKED UP

##### DISPOSAL

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

#### OTHER HAZARDS

NO DATA AVAILABLE

SPECIALIZED FLOOR COATINGS & DECORATIVE CONCRETE SYSTEMS

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	Wt. %	CAS Number
#1 CASTOR OIL	30-60	008001-79-4
BUTYL BENZYL PHTHALATE	15-30	000085-68-7
PINE OIL	5-10	008002-09-3
ETHOXYLATED CASTOR OIL	1-5	061791-12-6

### SECTION 4: FIRST AID MEASURES

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

**EYES:** FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.

**SKIN:** WASH WITH SOAP AND WATER. 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:** NONE

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** 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:** STORE BETWEEN 40°F AND 100°F PROTECTED FROM FROST AND DIRECT SUNLIGHT.

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.

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**SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

INGREDIENTS (CAS)	<u>EXPOSURE LIMITS (ppm)</u>				OTHER
	OSHA		ACGIH		
	TWA	STEL	TWA	STEL	
008001-79-4	NE	NE	NE	NE	
000085-68-7	NE	NE	NE	NE	
008002-09-3	NE	NE	NE	NE	
061791-12-6	NE	NE	NE	NE	

**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

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

**RESPIRATORY PROTECTION:** NONE REQUIRED IN ADEQUATELY VENTILATED AREAS. IF 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 EYE WASH STATIONS SHOULD BE READILY ACCESSIBLE.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>BOILING POINT:</b> >100°C (>212° F)	<b>SPECIFIC GRAVITY:</b> 1.0-1.1
<b>VAPOR PRESSURE:</b> ND	<b>MELTING POINT:</b> ND
<b>VAPOR DENSITY:</b> >1 (AIR = 1)	<b>EVAPORATION RATE:</b> <1 (BUTYL ACETATE = 1)
<b>SOLUBILITY IN WATER:</b> DILUTABLE	<b>pH:</b> 8.0 TO 11.5
<b>COEFFICIENT of WATER/OIL DISTRIBUTION:</b> ND	<b>ODOR THRESHOLD:</b> ND
<b>APPEARANCE AND ODOR:</b> MILKY WHITE LIQUID, MILD ODOR	
<b>% VOLATILES BY VOLUME:</b> 32%	<b>%SOLIDS BY WEIGHT:</b> 69%

**SECTION 10: STABILITY AND REACTIVITY**

**STABILITY:** STABLE

**CONDITIONS TO AVOID:** AVOID ELEVATED TEMPERATURES

**INCOMPATIBILITY (MATERIAL TO AVOID):** NONE KNOWN

**HAZARDOUS DECOMPOSITION PRODUCTS:** NONE KNOWN

**HAZARDOUS POLYMERIZATION (REACTIVITY):** WILL NOT OCCUR

**CONDITIONS TO AVOID:** KEEP FROM FREEZING

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**SECTION 11: TOXICOLOGICAL INFORMATION**

**PRIMARY ROUTES OF ENTRY:** EYE CONTACT, SKIN CONTACT, INHALATION, INGESTION.

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

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

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

**ACUTE ORAL TOXICITY- COMPONENTS**

BUTYL BENZYL PHTHALATE	LD50: 2330 mg/kg	SPECIES: RAT
PINE OIL	LD50: 3200 mg/kg	SPECIES: RAT
ETHOXYLATED CASTOR OIL	LD50: >5000 mg/kg	SPECIES: RAT

**ACUTE DERMAL TOXICITY- COMPONENTS**

BUTYL BENZYL PHTHALATE	LD50: > 10000 mg/kg	SPECIES: RABBIT
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**ACUTE INHALATION TOXICITY- COMPONENTS**

ND

**SKIN CORROSION/IRRITATION**

RABBIT, NON-IRRITANT

**SERIOUS EYE DAMAGE/EYE IRRITATION**

RABBIT, SLIGHT IRRITATION

**SENSITIZATION**

GUINEA PIG: DOES NOT CAUSE SENSITIZATION

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

NA

**REPRODUCTIVE TOXICITY:**

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

**CARCINOGENIC DATA:** NTP: NONE

OSHA: NONE

IARC: GROUP 3

TERATOGENICITY: NO

MUTAGENICITY: NO

EMBRYOTOXICITY: NO

SYNERGISTIC MATERIAL: NO

**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**

BUTYL BENZYL PHTHALATE	LC50 (96 HRS): 2.1 mg/l	SPECIES: FATHEAD MINNOW
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**ACUTE TOXICITY TO AQUATIC INVERTEBRATES: COMPONENTS**

BUTYL BENZYL PHTHALATE	EC50 (48 HRS): 1.8 mg/l	SPECIES: DAPHNIA MAGNA
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**ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS: COMPONENTS**

BUTYL BENZYL PHTHALATE	EC50 (72 HRS): 0.31 mg/l	SPECIES: GREEN ALGAE
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**TOXICITY TO BACTERIA: COMPONENTS**

ND

**CHRONIC AQUATIC TOXICITY**

SPECIALIZED FLOOR COATINGS & DECORATIVE CONCRETE SYSTEMS

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

### SECTION 12: ECOLOGICAL INFORMATION CON'T.

#### PERSISTANCE AND DEGRADABILITY

**BIODEGRADABILITY:** NOT READILY BIODEGRADABLE (BY OECD CRITERIA)

#### BIOACCUMULATIVE POTENTIAL

**BIOACCUMULATION:** ND

**PARTITION COEFFICIENT: N-OCTANOL/WATER(LOG P<sub>ow</sub>):** 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:** 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

**ADDITIONAL INFORMATION:** NONE

### SECTION 15: REGULATORY INFORMATION

**VOC:** 0 grams/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:** SLIGHT 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: CAS # 85-68-7 BUTYL BENZYL PHTHALATE.



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#### MANUFACTURER'S NAME / ADDRESS

ARIZONA POLYMER FLOORING  
7731 N. 68<sup>TH</sup> AVE.  
GLENDALE, AZ 85303

TRADE NAME: CASTORCRETE® PART B  
CHEMICAL FAMILY: AROMATIC ISOCYANATE  
MAIN USE: SPECIALTY FLOORING CURATIVE

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

### SECTION 2: HAZARDS IDENTIFICATION

#### GLOBALLY HARMONIZED SYSTEM (GHS)

##### CLASSIFICATION:

SKIN CORROSION: CATEGORY 2

EYE DAMAGE: CATEGORY 2B

ACUTE TOXICITY: CATEGORY 4 (INHALATION-MIST)

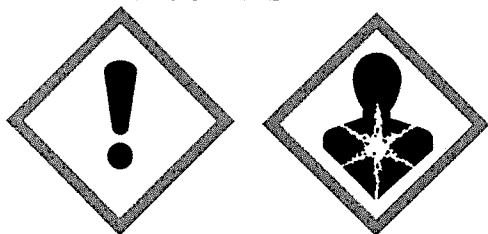
RESPIRATORY SENSITIZATION: CATEGORY 1

SKIN SENSITIZATION: CATEGORY 1B

CARCINOGEN: CATEGORY 2

#### GHS LABEL ELEMENTS

##### HAZARD PICTOGRAMS



SIGNAL WORD: DANGER!

##### HAZARD STATEMENTS:

H320: CAUSES EYE IRRITATION

H315: CAUSES SKIN IRRITATION

H332: HARMFUL IF INHALED

H317: MAY CAUSE AN ALLERGIC SKIN REACTION

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

H335: MAY CAUSE RESPIRATORY IRRITATION

H351: SUSPECTED OF CAUSING CANCER

H373: MAY CAUSE DAMAGE TO ORGANS (OLFACTORY ORGANS) THROUGH PROLONGED OR REPEATED EXPOSURE (INHALATION)

##### PRECAUTIONARY STATEMENTS:

###### PREVENTION

P201: OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.

P202: DO NOT HANDLE UNTIL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD

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

P271: USE ONLY OUTDOORS OR IN WELL VENTILATED AREA

P284: (IN CASE OF INADEQUATE VENTILATION) WEAR RESPIRATORY PROTECTION

P261: AVOID BREATHING DUST/FUME/GAS/MIST/VAPORS/SPRAY

P272: CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE

P264: WASH SKIN THOROUGHLY AFTER HANDLING

SPECIALIZED FLOOR COATINGS & DECORATIVE CONCRETE SYSTEMS

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<b>SECTION 2: HAZARDS IDENTIFICATION CON'T.</b>
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**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: **IF INHALED:** REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING  
 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  
 P362+P364: TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

**STORAGE**

P403+P235: STORE IN A WELL-VENTILATED PLACE. KEEP COOL  
 P233: KEEP CONTAINER TIGHTLY CLOSED  
 P405: STORE LOCKED UP

**DISPOSAL**

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

**OTHER HAZARDS**

NO DATA AVAILABLE

**EMERGENCY OVERVIEW:**

**DANGER!**  
 CONTAINS DIPHENYLMETHANE DIISOCYANATE  
 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  
 MAY BE HARMFUL IF ABSORBED THROUGH SKIN  
 SKIN SENSITIZER

<b>SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS</b>
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<u>HAZARDOUS INGREDIENTS</u>	<u>Wt. %</u>	<u>CAS Number</u>
4-4' -DIPHENYLMETHANE DIISOCYANATE	25-50	000101-68-8
POLYMERIC DIPHENYLMETHANE DIISOCYANATE	25-50	009016-87-9
MDI MIXED ISOMERS	15-20	026447-40-5
ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH ALPHA.-HYDRO.-.OMEGA.-HYDROXPOLY(OXY-1,2-ETHANEDIYL)	1-3	057636-09-6
1,3 DIAZETIDENE-2,4-DIONE, 1,3-BIS[4-[(4-ISOCYANATOPHENYL) METHYL]PHENYL]-	0.3-1.0	017589-24-1



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### 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.

**NOTES TO PHYSICIAN:**

**EYES:** STAIN FOR EVIDENCE OF CORNEAL INJURY. IF CORNEA IS BURNED, INSTILL ANTIBIOTIC/STEROID PREPARATION AS NEEDED. WORKPLACE VAPORS COULD PRODUCE REVERSIBLE CORNEAL EPITHELIAL EDEMA IMPAIRING VISION.

**SKIN:** THIS COMPOUND IS A SKIN SENSITIZER. TREAT SYMPTOMATICALLY AS FOR CONTACT DERMATITIS OR THERMAL BURN.

**INGESTION:** TREAT SYMPTOMATICALLY. THERE IS NO SPECIFIC ANTIDOTE. INDUCING VOMITING IS CONTRAINDICATED BECAUSE OF THE IRRITATING NATURE OF THE COMPOUND.

**INHALATION:** TREATMENT IS ESSENTIALLY SYMPTOMATIC. AN INDIVIDUAL HAVING A DERMAL OR PULMONARY SENSITIZATION REACTION TO THIS MATERIAL SHOULD BE REMOVED FROM FURTHER EXPOSURE TO ANY ISOCYANATE.

### SECTION 5: FIRE FIGHTING MEASURES

**FLASH POINT:** 225.5°C (438°F)

**CONDITIONS OF FLAMMABILITY:** NA

**FLAMMABLE LIMITS:** LEL: ND

UEL: ND

**AUTO IGNITION TEMP.:** ND

**OSHA CLASS:** 9

**HAZARDOUS COMBUSTION PRODUCTS:** CO, CO<sub>2</sub>, OXIDES OF NITROGEN, HCN, MDI

**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.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** EVACUATE NON-ESSENTIAL PERSONNEL. SHUT OFF SOURCES OF IGNITION. PUT ON PERSONAL PROTECTIVE EQUIPMENT. CONTROL SOURCE OF LEAK. VENTILATE. CONTAIN THE SPILL TO PREVENT SPREAD TO DRAINS, SEWERS, WATER SUPPLIES, OR SOIL. POUR DECONTAMINATION SOLUTION OVER SPILL AND ALLOW TO REACT FOR AT LEAST 15 MINUTES. COLLECT MATERIAL IN OPEN CONTAINERS WITH FURTHER AMOUNTS OF DECONTAMINATION SOLUTION. WASH DOWN SPILL AREA WITH DECONTAMINATION SOLUTION.

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DECONTAMINATION SOLUTIONS: COLORIMETRIC LABORATORIES INC. (CLI) DECONTAMINATION SOLUTION OR 20% NON-IONIC SURFACTANT (TERGITOL TMN-10) WITH 80% WATER.

### SECTION 7: HANDLING AND STORAGE

**GENERAL:** KEEP AWAY FROM OXIDIZERS AND BASES. STORE AND HANDLE IN WELL VENTILATED, DRY AREAS THAT DO NOT EXCEED 50°C (122°F). OPTIMUM TEMPERATURE IS BETWEEN 10-27°C (50-81°F). STORE IN CLOSED CONTAINERS. FORMATION OF CO<sub>2</sub> AND BUILD UP OF PRESSURE POSSIBLE.

**STORAGE:** AVOID TEMPERATURE EXTREMES. STORE AWAY FROM EXCESSIVE HEAT AND FROM REACTIVE MATERIALS. STORE OUT OF DIRECT SUNLIGHT IN A COOL PLACE. KEEP CONTAINERS TIGHTLY CLOSED.

### SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

INGREDIENTS (CAS)	<u>EXPOSURE LIMITS (ppm)</u>				OTHER
	OSHA		ACGIH		
	TWA	STEL	TWA	STEL	
000101-68-8	0.02	NE	0.005	NE	
009016-87-9	0.02	NE	0.005	NE	
026447-40-5	NE	NE	NE	NE	
057636-09-6	NE	NE	NE	NE	
017589-24-1	NE	NE	NE	NE	

**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 BELOW RECOMMENDED PEL. 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:** A RESPIRATOR THAT IS RECOMMENDED FOR USE IN ISOCYANATE CONTAINING ENVIRONMENTS (AIR PURIFYING OR FRESH AIR SUPPLIED) MAY BE NECESSARY FOR SPRAY APPLICATIONS OR OTHER SITUATIONS SUCH AS HIGH TEMPERATURE USE WHICH MAY PRODUCE INHALATION EXPOSURES. A SUPPLIED AIR RESPIRATOR (EITHER POSITIVE PRESSURE TYPE OR CONTINUOUS FLOW TYPE) IS RECOMMENDED. BEFORE AN AIR PURIFYING RESPIRATOR CAN BE USED, AIR MONITORING MUST BE PERFORMED TO DETERMINE THE AIRBORNE CONCENTRATIONS OF MDI MONOMER AND MDI POLYISOCYANATE.

**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:** 208° C (406°F)

**SPECIFIC GRAVITY:** 1.20-1.30

**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:** INSOLUBLE, REACTS SLOWLY WITH WATER TO LIBERATE CO<sub>2</sub> GAS

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

**ODOR THRESHOLD:** ND

**APPEARANCE AND ODOR:** DARK BROWN LIQUID, MUSTY ODOR

**% VOLATILES BY VOLUME:** 0%

**%SOLIDS BY WEIGHT:** 100%

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### SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** STABLE; HOWEVER MAY FORM PEROXIDES OF UNKNOWN STABILITY

**CONDITIONS TO AVOID:** NOT APPLICABLE (MATERIAL IS STABLE).

**INCOMPATIBILITY (MATERIALS TO AVOID)-** WATER, AMINES, STRONG BASES, ALCOHOLS, METAL COMPOUNDS AND SURFACE ACTIVE MATERIALS.

**HAZARDOUS DECOMPOSITION PRODUCTS:** BY HIGH HEAT AND FIRE; CO, CO<sub>2</sub>, OXIDES OF NITROGEN, HCN, HDI.

**HAZARDOUS POLYMERIZATION (REACTIVITY):** MAY OCCUR. CONTACT WITH MOISTURE OR OTHER MATERIALS THAT REACT WITH ISOCYANATES OR TEMPERATURES OVER 400F (204C) MAY CAUSE POLYMERIZATION.

### SECTION 11: TOXICOLOGICAL INFORMATION

**PRIMARY ROUTES OF ENTRY:** EYE CONTACT, SKIN CONTACT, INHALATION, INGESTION.

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

**EYES:**

**ACUTE** –VAPORS ARE 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** – MAY RESULT IN CORNEAL OPACITY. PROLONGED VAPOR CONTACT MAY CAUSE CONJUNCTIVITIS.

**SKIN CONTACT:**

**ACUTE** – ISOCYANATES REACT WITH SKIN PROTEIN AND MOISTURE AND CAN CAUSE IRRITATION. SYMPTOMS OF SKIN IRRITATION MAY BE REDDENING, SWELLING, RASH, SCALING OR BLISTERING. SOME PERSONS MAY DEVELOP SKIN SENSITIZATION FROM SKIN CONTACT. CURED MATERIAL IS DIFFICULT TO REMOVE. REPEATED OR PROLONGED SKIN CONTACT WITH SOLVENTS 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** – PROLONGED CONTACT WITH ISOCYANATES CAN CAUSE REDDENING, SWELLING, RASH, SCALING OR BLISTERING. IN THOSE WHO HAVE DEVELOPED A SKIN SENSITIZATION, THESE SYMPTOMS CAN DEVELOP AS A RESULT OF CONTACT WITH VERY SMALL AMOUNTS OF LIQUID OR EVEN AS A RESULT OF VAPOR-ONLY EXPOSURE. SOLVENTS CAN PENETRATE THE SKIN AND MAY CAUSE SYSTEMIC EFFECTS SIMILAR TO THOSE IDENTIFIED UNDER CHRONIC INHALATION EFFECTS.

**SKIN ABSORPTION:**

**ACUTE**—ND

**CHRONIC**-- ND

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**SECTION 11: TOXICOLOGICAL INFORMATION CON'T.**

**INHALATION:**

**ACUTE** –MDI AEROSOLS OR VAPORS AT CONCENTRATIONS ABOVE THE APPLICABLE EXPOSURE LIMITS CAN IRRITATE THE MUCOUS MEMBRANES IN THE RESPIRATORY TRACT CAUSING RUNNY NOSE, SORE THROAT, COUGHING, CHEST DISCOMFORT, SHORTNESS OF BREATH AND REDUCED LUNG FUNCTION. PERSONS WITH PRE-EXISTING NONSPECIFIC BRONCHIAL HYPER REACTIVITY CAN RESPOND TO CONCENTRATIONS BELOW THE EXPOSURE LIMITS WITH SIMILAR SYMPTOMS AS WELL AS AN ASTHMA ATTACK. EXPOSURE WELL ABOVE THE EXPOSURE LIMITS MAY LEAD TO BRONCHITIS, BRONCHIAL SPASM AND PULMONARY EDEMA. CHEMICAL OR HYPERSENSITIVE PNEUMONITIS HAS ALSO BEEN REPORTED. **CHRONIC** – AS A RESULT OF PREVIOUS REPEATED OVEREXPOSURES OR A SINGLE LARGE DOSE, CERTAIN INDIVIDUALS WILL DEVELOP ISOCYANTE SENSITIZATION (CHEMICAL ASTHMA) WHICH WILL CAUSE THEM TO REACT TO A LATER EXPOSURE TO ISOCYANATES AT LEVELS WELL BELOW APPLICABLE EXPOSURE LIMITS. THESE SYMPTOMS, WHICH INCLUDE CHEST TIGHTNESS, WHEEZING, COUGH, SHORTNESS OF BREATH OR ASTHMATIC ATTACK, COULD BE IMMEDIATE OR DELAYED UP TO SEVERAL HOURS AFTER EXPOSURE. SIMILAR TO MANY NON-SPECIFIC ASTHMATIC RESPONSES, THERE ARE REPORTS THAT ONCE SENSITIZED AN INDIVIDUAL CAN EXPERIENCE THESE SYMPTOMS UPON EXPOSURE TO DUST, COLD AIR OR OTHER IRRITANTS. THIS INCREASED LUNG SENSITIVITY CAN PERSIST FOR WEEKS AND IN SEVERE CASES FOR SEVERAL YEARS. CHRONIC OVEREXPOSURE TO ISOCYANTES HAS ALSO BEEN REPORTED TO CAUSE LUNG DAMAGE, INCLUDING DECREASE IN LUNG FUNCTION, WHICH MAY BE PERMANENT. SENSITIZATION MAY BE EITHER TEMPORARY OR PERMANENT. CHRONIC EXPOSURE TO

**INGESTION:**

**ACUTE** – CAN RESULT IN IRRITATION AND POSSIBLE CORROSIVE ACTION IN THE MOUTH, STOMACH TISSUE AND DIGESTIVE TRACT. SYMPTOMS CAN INCLUDE SORE THROAT, ABDOMINAL PAIN, NAUSEA, VOMITING AND DIARRHEA.

**CHRONIC** -- ND

**CONDITIONS AGGRAVATED BY EXPOSURE:** ASTHMA AND OTHER RESPIRATORY DISORDERS, SKIN ALLERGIES, ECZEMA

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

**ACUTE ORAL TOXICITY- COMPONENTS**

4-4' –DIPHENYLMETHANE DIISOCYANATE LD50: >2000mg/kg SPECIES: RAT

**ACUTE DERMAL TOXICITY- COMPONENTS**

4-4' –DIPHENYLMETHANE DIISOCYANATE LD50: >9400 mg/kg SPECIES: RABBIT

**ACUTE INHALATION TOXICITY- COMPONENTS**

4-4' –DIPHENYLMETHANE DIISOCYANATE LC50(4 HR): 2.0 mg/l SPECIES: RAT  
OECD TEST GUIDELINE 403

**SKIN CORROSION/IRRITATION**

SLIGHTLY IRRITATING, RABBIT

**SERIOUS EYE DAMAGE/EYE IRRITATION**

IRRITATING, RABBIT

**SENSITIZATION**

PULMONARY AND DERMAL SENSITIZER IN ANIMALS AND HUMANS. EVIDENCE EXISTS THAT CROSS SENSITIZATION BETWEEN MDI AND OTHER ISOCYANATES, HDI AND TDI, CAN OCCUR.

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

CATEGORY 3 (IRRITATING TO RESPIRATORY SYSTEM)

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

CATEGORY 2 (BY INHALATION)

SPECIALIZED FLOOR COATINGS & DECORATIVE CONCRETE SYSTEMS

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### SECTION 11: TOXICOLOGICAL INFORMATION CON'T.

#### **GERM CELL MUTAGENICITY:**

ASSESSMENT OF MUTAGENICITY: THE SUBSTANCE WAS MUTAGENIC IN VARIOUS BACTERIAL TEST SYSTEMS, HOWEVER THESE RESULTS COULD NOT BE CONFIRMED IN TESTS WITH MAMMALS.

#### **CARCINOGENIC DATA:**

ASSESSMENT OF CARCINOGENICITY: A CARCINOGENIC POTENTIAL CANNOT BE EXCLUDED AFTER PROLONGED EXPOSURE TO SEVERLY IRRITATING CONCENTRATIONS. THESE EFFECTS ARE NOT RELEVANT TO HUMANS AT OCCUPATIONAL LEVELS OF EXPOSURE

#### **REPRODUCTIVE TOXICITY:**

ASSESSMENT OF REPRODUCTIVE TOXICITY :REPEATED INHALATIVE UPTAKE OF THE SUBSTANCE DID NOT CAUSE DAMAGE TO THE REPRODUCTIVE ORGANS.

### SECTION 12: ECOLOGICAL INFORMATION

#### **TOXICITY**

**AQUATIC TOXICITY:** THERE IS A HIGH PROBABILITY THAT THE PRODUCT IS NOT HARMFUL TO AQUATIC ORGANISMS

#### **ACUTE TOXICITY TO FISH- COMPONENTS**

4-4' -DIPHENYLMETHANE DIISOCYANATE LC50 (96 HRS): >1000 mg/l SPECIES: FATHEAD MINNOW

#### **ACUTE TOXICITY TO AQUATIC INVERTEBRATES: COMPONENTS**

4-4' -DIPHENYLMETHANE DIISOCYANATE EC50 (24 HRS): >1000 mg/l SPECIES: DAPHNIA MAGNA

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

4-4' -DIPHENYLMETHANE DIISOCYANATE EC50 (72 HRS): 1640 mg/l SPECIES: GREEN ALGAE

#### **TOXICITY TO BACTERIA: COMPONENTS**

4-4' -DIPHENYLMETHANE DIISOCYANATE EC20 (3 HR): > 100 mg/l ACTIVATED SLUDGE

#### **CHRONIC AQUATIC TOXICITY**

**CHRONIC TOXICITY TO AQUATIC INVERTEBRATES:** BASED ON LONG TERM STUDY DATA THE PRODUCT IS VERY LIKELY NOT HARMFUL TO AQUATIC ORGANISMS

#### **PERSISTENCE AND DEGRADABILITY**

**BIODEGRADABILITY:** POORLY BIODEGRADABLE. THE PRODUCT IS UNSTABLE IN WATER

**BIODEGRADATION:** 0%

**EXPOSURE TIME:** 28 DAYS

**METHOD:** OECD TEST GUIDELINE 302C OR EQUIVALENT

#### **BIOACCUMULATIVE POTENTIAL**

**BIOACCUMULATION:** SIGNIFICANT ACCUMULATION IN ORGANISMS IS NOT TO BE EXPECTED

**MOBILITY IN SOIL:** ADSORPTION TO SOLIDS SOIL PHASE IS NOT EXPECTED

### 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.

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**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:** RESIN COMPOUND, NOT REGULATED  
**ICAO/IATA SHIPPING DATA:** RESIN COMPOUND, NOT REGULATED

**SECTION 15: REGULATORY INFORMATION**

**VOC:** COMPONENT = 0 gms/Liter      **AS APPLIED** (Part of a multi-component system) = 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):** RQ- 5000 LBS. CAS# 101-68-8, CAS # 9016-87-9  
**SARA TITLE III**  
**SECTION 312 HAZARD CLASS:** IMMEDIATE (ACUTE) HEALTH HAZARD, DELAYED HEALTH HAZARD;  
**SECTION 313 LISTED INGREDIENTS:** CAS# 000101-68-8 4-4' -DIPHENYLMETHANE DIISOCYANATE, CAS #009016-87-9 POLYMERIC DIPHENYLMETHANE DIISOCYANATE  
**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:** JUNE 24, 2015      **REVISION DATE:**      **PREPARED BY:** J.W. ESSIG  
**HAZARD RATING**  
**HMIS:**                                      **HEALTH**    2                                      **FLAMMABILITY**    1                                      **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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**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

**MANUFACTURER'S NAME / ADDRESS**

**ARIZONA POLYMER FLOORING**  
7731 N. 68<sup>TH</sup> AVE.  
GLENDALE, AZ 85303

**TRADE NAME:** CASTORCRETE® RT, SL, TG, CM PART D  
**CHEMICAL FAMILY:** CEMENT BASED AGGREGATE  
**MAIN USE:** AGGREGATE FOR SPECIALTY FLOORING

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

**SECTION 2: HAZARDS IDENTIFICATION**

**GLOBALLY HARMONIZED SYSTEM (GHS)**

**CLASSIFICATION:** HAZARDOUS  
**CARCINOGENICITY:** CATEGORY 1A  
**SKIN CORROSION:** CATEGORY 1A  
**EYE DAMAGE:** CATEGORY 1  
**SKIN SENSITIZATION:** SUB-CATEGORY 1B

**GHS LABEL ELEMENTS**  
**HAZARD PICTOGRAMS**



**SIGNAL WORD:** DANGER!

**HAZARD STATEMENTS:**

H314: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE  
H317: MAY CAUSE AN ALLERGIC SKIN REACTION  
H335: MAY CAUSE RESPIRATORY TRACT IRRITATION  
H350: MAY CAUSE CANCER  
H371: CAUSES DAMAGE TO LUNGS THROUGH PROLONGED OR REPEATED EXPOSURE BY INHALATION

**PRECAUTIONARY STATEMENTS:**

**PREVENTION**

P202: DO NOT HANDLE UNTIL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD  
P260: DO NOT BREATHE DUST  
P270: DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT  
P272: CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE  
P280: WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION  
P284: IN CASE OF INADEQUATE VENTILATION WEAR RESPIRATORY PROTECTION

**RESPONSE**

P308+P313: IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION.  
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.  
P304+P340 **IF INHALED:** REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING  
P301+P331: IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING

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P337+P313: IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION  
 P333+P313: IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION  
 P361+P364: TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE  
 P391: COLLECT SPILLAGE

**STORAGE**

P403+P235: STORE IN A WELL-VENTILATED PLACE. KEEP COOL

**DISPOSAL**

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

**OTHER HAZARDS**

NO DATA AVAILABLE

<b>SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS</b>
--

HAZARDOUS INGREDIENTS	Wt %	CAS Number
CRYSTALLINE SILICA	40-70	014808-60-7
DOLOMITIC LIMESTONE	10-30	001317-65-3
PORTLAND CEMENT	7-15	065997-15-1
CALCIUM HYDROXIDE	5-10	001305-62-0

<b>SECTION 4: FIRST AID MEASURES</b>
--------------------------------------

**GENERAL:** IN DRY FORM THE POWDER POSES LITTLE IMMEDIATE HAZARD. EXPOSURE OF SUFFICIENT DURATION TO WET MATERIAL CAN CAUSE TISSUE DAMAGE.

**EYES:** FLUSH WITH WATER FOR 15 MINUTES. AVOID RUBBING. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

**SKIN:** WASH WITH MILD SOAP AND WATER. SEEK MEDICAL TREATMENT WITH LONG EXPOSURES TO WET PRODUCT.

**INHALATION:** REMOVE AFFECTED PERSON TO FRESH AIR. SEEK MEDICAL ATTENTION IF COUGHING OR OTHER SYMPTOMS DO NOT SUBSIDE.

**INGESTION:** GIVE 3 – 4 GLASSES OF WATER OR MILK IF PERSON CONSCIOUS. **DO NOT INDUCE VOMITING!** OBTAIN MEDICAL CARE AND TREATMENT.

<b>SECTION 5: FIRE FIGHTING MEASURES</b>
--

**FLASH POINT:** NONE

**CONDITIONS OF FLAMMABILITY:** NA

**FLAMMABLE LIMITS:** LEL: ND UEL: ND

**OSHA CLASS:** NOT REGULATED

**AUTO IGNITION TEMP:** ND

**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

**FLASH POINT:** NA

**OSHA CLASS:** NONE SHOWN



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### 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. SCRAPE UP WET MATERIAL AND PLACE IN CONTAINERS. ALLOW TO DRY BEFORE 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

INGREDIENTS (CAS)	<u>EXPOSURE LIMITS (ppm)</u>		OTHER
	OSHA	ACGIH	
	TWA STEL	TWA STEL	
014808-60-7	0.1mg/m <sup>3</sup> ND	0.05mg/m <sup>3</sup> ND	Respirable Dust
001317-65-3	15mg/m <sup>3</sup> ND	10mg/m <sup>3</sup> ND	Respirable Dust
065997-15-1	10mg/m <sup>3</sup> ND	10mg/m <sup>3</sup> ND	Respirable Dust
001305-62-0	5mg/m <sup>3</sup> ND	5mg/m <sup>3</sup> ND	Respirable Dust

**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/PERSONAL PROTECTION

**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

**BOILING POINT:** 2230<sup>o</sup>C (4046<sup>o</sup>F)

**SPECIFIC GRAVITY:** 2.45

**VAPOR PRESSURE:** NA

**MELTING POINT:** NA

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

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

**SOLUBILITY IN WATER:** VERY SLIGHT

**pH:** 8-11.5

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

**ODOR THRESHOLD:** ND

SPECIALIZED FLOOR COATINGS & DECORATIVE CONCRETE SYSTEMS

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**APPEARANCE AND ODOR:** COLORED GRANULAR POWDER, NO DISTINCT ODOR.

**% VOLATILES BY VOLUME:** 0%

**% SOLIDS BY WEIGHT:** 100%

### SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** STABLE;

**CONDITIONS TO AVOID:** NOT APPLICABLE (MATERIAL IS STABLE)

**INCOMPATIBILITY (MATERIAL TO AVOID):** VERY STRONG OXIDIZING AGENTS MAY CAUSE FIRES. AVOID ACIDS AND AMMONIUM SALTS.

**HAZARDOUS DECOMPOSITION PRODUCTS:** WATER PRODUCES HYDRATION AND FORMATION OF CAUSTIC CALCIUM HYDROXIDE.

**HAZARDOUS POLYMERIZATION (REACTIVITY):** WILL NOT OCCUR.

### 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** – REPEATED CONTACT MAY CAUSE CHEMICAL BURNS RESULTING IN CORNEAL DAMAGE

**SKIN CONTACT:**

**ACUTE** – IRRITATION/DISCOMFORT MAY OCCUR.

**CHRONIC** – (CAUSTIC) CHEMICAL BURNS CAN OCCUR.

**SKIN ABSORPTION:**

**ACUTE** – ND

**CHRONIC** – ND

**INHALATION:**

**ACUTE** – MAY CAUSE IRRITATION. COUGHING OR SHORTNESS OF BREATH MAY RESULT

**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:** ND

**SKIN CORROSION/IRRITATION**

DOT SKIN CORROSION STUDY: CORROSIVE IN ALL RABBITS AT 3 MINUTES EXPOSURE

**SERIOUS EYE DAMAGE/EYE IRRITATION**

SEVERE EYE IRRITATION

**SENSITIZATION**

FOR SKIN SENSITIZATION:

MAY CAUSE AN ALLERGIC REACTION AFTER A SINGLE EXPOSURE OR WITH REPEATED OR PROLONGED SKIN CONTACT

FOR RESPIRATORY SENSITIZATION:

NOT CLASSIFIED BUT POSSIBLE DUE TO SKIN SENSITIZATION EFFECT

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### SECTION 11: TOXICOLOGICAL INFORMATION CON'T.

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

CATEGORY 3, INHALATION AND SKIN CONTACT, RESPIRATORY TRACT IRRITATION, SKIN IRRITATION

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

CATEGORY 1, INHALATION, RESPIRATORY TRACT

**CARCINOGENIC DATA:** NTP: YES OSHA: NO IARC: YES (1A)  
TERATOGENICITY: ND MUTAGENICITY: ND  
EMBRYOTOXICITY: ND SYNERGISTIC MATERIAL: ND

**OVEREXPOSURE EFFECTS:** REPEATED, PROLONGED INHALATION OF EXCESSIVE QUANTITIES OF QUARTZ DUST MAY RESULT IN DELAYED LUNG DISEASE (SILICOSIS). WET CEMENT CAN CAUSE ALKALI BURNS AND DRY THE SKIN. DUST MAY CAUSE EYE AND NOSE INFLAMMATION.

IRRITANCY: YES  
SENSITIZER: YES

### SECTION 12: ECOLOGICAL INFORMATION

#### TOXICITY

ACUTE TOXICITY TO FISH: ND

ACUTE TOXICITY TO AQUATIC INVERTEBRATES: ND

ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS: ND

TOXICITY TO BACTERIA: ND

#### PERSISTANCE AND DEGRADABILITY

##### BIOACCUMULATIVE POTENTIAL

BIOACCUMULATION: ND

MOBILITY IN SOIL: ND

### SECTION 13: DISPOSAL CONSIDERATIONS

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

### SECTION 14: TRANSPORT INFORMATION

**DOT PROPER SHIPPING NAME:** NOT REGULATED

**UN NUMBER:** NA

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

**HAZARD PLACARD** NA

**IMO SHIPPING DATA:** NOT REGULATED

**ICAO/IATA SHIPPING DATA:** NOT REGULATED

**ADDITIONAL INFORMATION:** NONE

**HAZARD CLASS:** NA

**PACKAGING GROUP:** NA

**HAZARD LABEL:** NA

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**SECTION 15: REGULATORY INFORMATION**

**VOC: COMPONENT** = 0 gms/Liter      **AS APPLIED** (Part of a multi-component system) = 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:** HAZARDOUS SUBSTANCE WITH DELAYED HEALTH EFFECTS.

**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: CAS # 14808-60-7

**SECTION 16: OTHER INFORMATION**

**INITIAL ISSUE DATE:** JUNE 30, 2015

**REVISION DATE:**

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

**HAZARD RATING**

**HMIS:**                                      **HEALTH 3**                                      **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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