

## 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: SK-P5100 PART B  
COLOR: CLEAR  
MAIN USE: SPECIALTY FLOORING CURATIVE

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

### SECTION 2: HAZARDS IDENTIFICATION

#### GLOBALLY HARMONIZED SYSTEM (GHS)

##### CLASSIFICATION:

ACUTE TOXICITY: CATEGORY 4 (INHALATION-MIST)

RESPIRATORY SENSITIZATION: CATEGORY 1

SKIN SENSITIZATION: CATEGORY 1

EYE IRRITATION: CATEGORY 2A

#### GHS LABEL ELEMENTS

##### HAZARD PICTOGRAMS



SIGNAL WORD: WARNING!

##### HAZARD STATEMENTS:

H332: HARMFUL IF INHALED

H317: MAY CAUSE AN ALLERGIC SKIN REACTION

H335: MAY CAUSE RESPIRATORY IRRITATION

##### PRECAUTIONARY STATEMENTS:

###### PREVENTION

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

P271: USE ONLY OUTDOORS OR IN WELL VENTILATED AREA

P261: AVOID BREATHING MIST/VAPORS

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

###### RESPONSE

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.

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## SECTION 2: HAZARDS IDENTIFICATION CON'T.

### 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:

WARNING!

HARMFUL IF INHALED

RESPIRATORY SENSITIZER

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION

SKIN SENSITIZER

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### HAZARDOUS INGREDIENTS

	Wt. %	CAS Number
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE	60-100	028182-81-2
4-METHYL-2-OXO-1,3-DIOXOLANE	7-15	000108-32-7
HEXAMETHYLENE-1,6- DIISOCYANATE	0.1-1.0	000822-06-0

## 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.

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## SECTION 5: FIRE FIGHTING MEASURES

**FLASH POINT:** 116°C (241°F) – PMCC

**OSHA CLASS:** IIIB

**CONDITIONS OF FLAMMABILITY:** ND

**AUTO IGNITION TEMP.:** ND

**FLAMMABLE LIMITS:** **LEL:** 1.8% **UEL:** 14.3%

**SENSITIVITY TO IMPACT:** NONE

**HAZARDOUS COMBUSTION PRODUCTS:** CO, CO<sub>2</sub>, 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.

## 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.

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

## SECTION 7: HANDLING AND STORAGE

**HANDLING:** AVOID CONTACT WITH SKIN AND EYES. EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE READILY ACCESSIBLE. ADHERE TO WORK PRACTICE RULES ESTABLISHED BY GOVERNMENT REGULATIONS. USE PERSONAL PROTECTIVE EQUIPMENT. WHEN USING DO NOT EAT, DRINK OR SMOKE.

**STORAGE:** KEEP AWAY FROM OXIDIZERS, HEAT OR FLAME. STORE IN STEEL CONTAINERS. DO NOT STORE NEAR ACIDS. KEEP CONTAINERS TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE.

## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

INGREDIENTS (CAS)	<u>EXPOSURE LIMITS (ppm)</u>				OTHER
	OSHA		ACGIH		
	TWA	STEL	TWA	STEL	
028182-81-2	NE	NE	NE	NE	
000108-32-7	NE	NE	NE	NE	
000822-06-0	NE	NE	0.005	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

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### SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION CON'T.

**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 HDI MONOMER AND HDI 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:** NA, DECOMPOSITION

**SPECIFIC GRAVITY:** 1.1-1.2

**VAPOR PRESSURE:** ND

**MELTING POINT:** ND

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

**EVAPORATION RATE:** NA  
(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:** CLEAR LIQUID, MILD ODOR

### 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.

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

#### 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.

**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.

#### SKIN ABSORPTION:

**ACUTE**—ND

**CHRONIC**-- ND

#### INHALATION:

**ACUTE** –HDI 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. OTHER POSSIBLE SYMPTOMS OF OVEREXPOSURE INCLUDE: HEADACHE, DIZZINESS, NAUSEA, NARCOSIS, FATIGUE AND LOSS OF APPETITE.

**CHRONIC** – AS A RESULT OF PREVIOUS REPEATED OVEREXPOSURES OR A SINGLE LARGE DOSE, CERTAIN INDIVIDUALS WILL DEVELOP ISOCYANATE 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 ISOCYANATES HAS ALSO BEEN REPORTED TO CAUSE LUNG DAMAGE, INCLUDING DECREASE IN LUNG FUNCTION, WHICH MAY BE PERMANENT. SENSITIZATION MAY BE EITHER TEMPORARY OR PERMANENT.

#### 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

HEXAMETHYLENE-1,6- DIISOCYANATE

LD50: >2500mg/kg

SPECIES: RAT

4-METHYL-2-OXO-1,3-DIOXOLANE

LD50: >5000 mg/kg

SPECIES: RAT

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## SECTION 11: TOXICOLOGICAL INFORMATION CON'T.

### ACUTE DERMAL TOXICITY- COMPONENTS

HEXAMETHYLENE-1,6- DIISOCYANATE	LD50: >2000 mg/kg	SPECIES: RAT
4-METHYL-2-OXO-1,3-DIOXOLANE	LD50: >2000 mg/kg	SPECIES: RABBIT

### ACUTE INHALATION TOXICITY- COMPONENTS

HEXAMETHYLENE-1,6- DIISOCYANATE	LC50(4 HR): 0.467 mg/l	SPECIES: RAT
4-METHYL-2-OXO-1,3-DIOXOLANE	ND	

OECD TEST GUIDELINE 403

### SKIN CORROSION/IRRITATION

SLIGHTLY IRRITATING

### SERIOUS EYE DAMAGE/EYE IRRITATION

SLIGHTLY IRRITATING

### SENSITIZATION

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

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

CATEGORY 3 (IRRITATING TO RESPIRATORY SYSTEM)

CARCINOGENIC DATA: NTP: NONE

OSHA: NONE

IARC: NONE

TERATOGENICITY: NO

MUTAGENICITY: NO

EMBRYOTOXICITY: NO

SYNERGISTIC MATERIAL: NO

## SECTION 12: ECOLOGICAL INFORMATION

### TOXICITY

AQUATIC TOXICITY: NO DATA ON THE PRODUCT ITSELF.

### ACUTE TOXICITY TO FISH- COMPONENTS

HEXAMETHYLENE-1,6-DIISOCYANATE	LC50 (96 HRS): 100 mg/l	SPECIES: FATHEAD MINNOW
4-METHYL-2-OXO-1,3-DIOXOLANE	LC50 (96 HRS): >1000 mg/l	SPECIES: CARP

### ACUTE TOXICITY TO AQUATIC INVERTEBRATES: COMPONENTS

HEXAMETHYLENE-1,6- DIISOCYANATE	EC50 (48 HRS): 127 mg/l	SPECIES: DAPHNIA MAGNA
4-METHYL-2-OXO-1,3-DIOXOLANE	EC50 (48 HRS): >1000 mg/l	SPECIES: DAPHNIA MAGNA

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

HEXAMETHYLENE-1,6- DIISOCYANATE	EC50 (72 HRS): >1000 mg/l	SPECIES: GREEN ALGAE
4-METHYL-2-OXO-1,3-DIOXOLANE	EC50 (72 HRS): >1000 mg/l	SPECIES: GREEN ALGAE

### TOXICITY TO BACTERIA: COMPONENTS

HEXAMETHYLENE-1,6- DIISOCYANATE	EC20 (3 HR): > 880 mg/l	ACTIVATED SLUDGE
4-METHYL-2-OXO-1,3-DIOXOLANE	EC10 (16 HR): 7400 mg/l	ACTIVATED SLUDGE

### CHRONIC AQUATIC TOXICITY

CHRONIC TOXICITY TO AQUATIC INVERTEBRATES: ND

### PERSISTENCE AND DEGRADABILITY

BIODEGRADABILITY: NOT READILY BIODEGRADABLE (BY OECD CRITERIA)

### BIOACCUMULATIVE POTENTIAL

BIOACCUMULATION: ND

MOBILITY IN SOIL: ND

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

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## 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:** 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):** NA

### SARA TITLE III

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

**SECTION 313 LISTED INGREDIENTS:** CAS# 822-06-0 HEXAMETHYLENE 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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