

## SAFETY DATA SHEET

DURATHANE VOC600 A

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

#### MANUFACTURER'S NAME / ADDRESS

DURACORP  
2664 VISTA PACIFIC  
OCEANSIDE, CA 92056 760-758-7240

TRADE NAME: DURATHANE 600VOC A  
COLOR: CLEAR  
MAIN USE: SPECIALTY SEALER

**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

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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 (CO<sub>2</sub>), 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

<b>HAZARDOUS INGREDIENTS</b>	<b>Wt. %</b>	<b>CAS Number</b>
XYLENE-MIXED ORTHO, META AND PARA ISOMERS	15-40	001330-20-7
ACETONE	7-15	000067-64-1
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, 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. 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	
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:** CLEAR TO HAZY LIQUID, SWEET SOLVENT ODOR

**% VOLATILES BY VOLUME:** 62%

**% SOLIDS BY WEIGHT:** 46%

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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, CO<sub>2</sub>

**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.

## SAFETY DATA SHEET

DURATHANE VOC600 A

<b>SECTION 11: TOXICOLOGICAL INFORMATION CON'T.</b>
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**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

<b>SECTION 12: ECOLOGICAL INFORMATION</b>
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**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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DURATHANE VOC600 A

### 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 P<sub>ow</sub>):** ND

**MOBILITY IN SOIL**

ND

### SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHODS:** INCINERATION IS PREFERED. 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.





## SAFETY DATA SHEET

DURATHANE VOC600 B

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

#### MANUFACTURER'S NAME / ADDRESS

PROLINE CONCRETE TOOLS

2664 VISTA PACIFIC  
OCEANSIDE, CA 92056

TRADE NAME: DURATHANE 600VOC B

COLOR: CLEAR

MAIN USE: SPECIALTY SEALER

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

### SECTION 2: HAZARDS IDENTIFICATION

#### GLOBALLY HARMONIZED SYSTEM (GHS)

##### CLASSIFICATION:

**FLAMMABLE LIQUIDS:** CATEGORY 3

**ACUTE TOXICITY:** CATEGORY 4 (INHALATION-MIST)

**RESPIRATORY SENSITIZATION:** CATEGORY 1

**SKIN SENSITIZATION:** CATEGORY 1

**ACUTE AQUATIC TOXICITY:** CATEGORY 2

**CHRONIC AQUATIC TOXICITY:** CATEGORY 3

#### GHS LABEL ELEMENTS

##### HAZARD PICTOGRAMS



**SIGNAL WORD:** DANGER!

#### HAZARD STATEMENTS:

H226: FLAMMABLE LIQUID AND VAPOR

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

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

P261: AVOID BREATHING 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

## SAFETY DATA SHEET

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

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

#### RESPONSE

P303+P361+353: **IF ON SKIN (OR HAIR):** REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER

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

P362+P364: TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

P370+P378: IN CASE OF FIRE: USE DRY CHEMICAL, CARBON DIOXIDE (CO<sub>2</sub>), 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 IF INHALED  
RESPIRATORY SENSITIZER  
MAY CAUSE 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  
SKIN SENSITIZER

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<b>HAZARDOUS INGREDIENTS</b>	<b>Wt. %</b>	<b>CAS Number</b>
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE	30-60	028182-81-2
ETHYL-3-ETHOXYPROPIONATE	30-60	000763-69-9
AROMATIC PETROLEUM DISTILLATES	30-60	064742-95-6
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).

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DURATHANE VOC600 B

### SECTION 4: FIRST AID MEASURES CON'T.

**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:** 43.3°C (110°F) TCC (SC #100)

**CONDITIONS OF FLAMMABILITY:** NA

**FLAMMABLE LIMITS:** **LEL:** 1.0%

**UEL:** 7.0%

**AUTO IGNITION TEMP.:** 487.7°C (910°F)

**OSHA CLASS:** FLAMMABLE LIQUID, PACKING GROUP III

**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. 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:** 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

**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.

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### SECTION 7: HANDLING AND STORAGE CON'T.

**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

#### EXPOSURE LIMITS (ppm)

INGREDIENTS (CAS)	OSHA		ACGIH		OTHER
	TWA	STEL	TWA	STEL	
028182-81-2	NE	NE	NE	NE	
000763-69-9	50	100	50	100	
064742-95-6	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

**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, HDI POLYISOCYANATE AND ORGANIC SOLVENTS.

**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:** >168°C (335°F)

**SPECIFIC GRAVITY:** 1.10-1.20

**VAPOR PRESSURE:** 2.1mmHg @ 20°C (68°F)

**MELTING POINT:** ND

**VAPOR DENSITY:** 4.50  
(AIR = 1)

**EVAPORATION RATE:** 0.19 (SC #100)  
(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, AROMATIC SOLVENT ODOR

**% VOLATILES BY VOLUME:** 68.1%

**% SOLIDS BY WEIGHT:** 37.8%

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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

**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. 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.

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<b>SECTION 11: TOXICOLOGICAL INFORMATION CON'T.</b>
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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. 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 AND POSSIBLE CORROSIVE ACTION IN THE MOUTH, STOMACH TISSUE AND 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:** 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
AROMATIC PETROLEUM DISTILLATES	LD50: 8400 mg/kg	SPECIES: RAT
ETHYL-3-ETHOXYPROPIONATE	LD50: >5000 mg/kg	SPECIES: RAT

**ACUTE DERMAL TOXICITY- COMPONENTS**

HEXAMETHYLENE-1,6- DIISOCYANATE	LD50: >2000 mg/kg	SPECIES: RAT
AROMATIC PETROLEUM DISTILLATES	LD50: >2000 mg/kg	SPECIES: RABBIT
ETHYL-3-ETHOXYPROPIONATE	LD50: 4080 mg/kg	SPECIES: RAT

**ACUTE INHALATION TOXICITY- COMPONENTS**

HEXAMETHYLENE-1,6- DIISOCYANATE	LC50: 0.467 mg/l
AROMATIC PETROLEUM DISTILLATES	LC50: 3400 ppm
ETHYL-3-ETHOXYPROPIONATE	LC50: >998 ppm

OECD TEST GUIDELINE 403

**SKIN CORROSION/IRRITATION**

SLIGHTLY TO MODERATELY IRRITATING

**SERIOUS EYE DAMAGE/EYE IRRITATION**

SLIGHTLY TO MODERATELY IRRITATING

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<b>SECTION 11: TOXICOLOGICAL INFORMATION CON'T.</b>
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**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)

<b>CARCINOGENIC DATA:</b> NTP: NONE	OSHA: NONE	IARC: NONE
TERATOGENICITY: NO		MUTAGENICITY: NO
EMBRYOTOXICITY: NO		SYNERGISTIC MATERIAL: NO

<b>SECTION 12: ECOLOGICAL INFORMATION</b>
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**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**

HEXAMETHYLENE-1,6-DIISOCYANATE LC50 (96 HRS): 100 mg/l	SPECIES: FATHEAD MINNOW
AROMATIC PETROLEUM DISTILLATES LC50 (96 HRS): 9.22 mg/l	SPECIES: FATHEAD MINNOW
ETHYL-3-ETHOXYPROPIONATE LC50 (96 HRS): 55.3 mg/l	SPECIES: FATHEAD MINNOW

**ACUTE TOXICITY TO AQUATIC INVERTEBRATES: COMPONENTS**

HEXAMETHYLENE-1,6- DIISOCYANATE EC50 (48 HRS): 127 mg/l	SPECIES: DAPHNIA MAGNA
AROMATIC PETROLEUM DISTILLATES EC50 (48 HRS): 6.14 mg/l	SPECIES: DAPHNIA MAGNA
ETHYL-3-ETHOXYPROPIONATE EC50 (48 HRS): 479.7 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
AROMATIC PETROLEUM DISTILLATES ND	
ETHYL-3-ETHOXYPROPIONATE EC50 (72 HRS): 114.9 mg/l	SPECIES: GREEN ALGAE

**TOXICITY TO BACTERIA: COMPONENTS**

HEXAMETHYLENE-1,6- DIISOCYANATE EC50: > 880mg/l	ACTIVATED SLUDGE
AROMATIC PETROLEUM DISTILLATES ND	
ETHYL-3-ETHOXYPROPIONATE EC50: > 5000mg/l	ACTIVATED SLUDGE

**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 P<sub>ow</sub>): ND

**MOBILITY IN SOIL**

ND

<b>SECTION 13: DISPOSAL CONSIDERATIONS</b>
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**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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<b>SECTION 14: TRANSPORT INFORMATION</b>
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**DOT PROPER SHIPPING NAME:** UN1866, RESIN SOLUTION, FLAMMABLE, (CONTAINS SC #100), 3, PG III

**PACKAGING GROUP:** III

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

**HAZARD LABEL:** FLAMMABLE LIQUID

**HAZARD PLACARD:** FLAMMABLE LIQUID

**IMO SHIPPING DATA:** UN1866, RESIN SOLUTION, FLAMMABLE, (CONTAINS SC #100), 3, PG III

**ICAO/IATA SHIPPING DATA:** UN1866, RESIN SOLUTION, FLAMMABLE, (CONTAINS SC #100), 3, PG III

**PASSENGER AIR MAX QUANTITY:** 60L

**PASSENGER PACKING INSTRUCTION:** 309

**CARGO AIR- MAX QUANTITY:** 220L

**CARGO AIR INSTRUCTION NUMBER:** 310

<b>SECTION 15: REGULATORY INFORMATION</b>
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**VOC:** COMPONENT = 115 gms/Liter

**AS APPLIED** (Part of a multi-component system) = 350 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, MEK 5000 LBS.

**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.

<b>SECTION 16: OTHER INFORMATION</b>
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**INITIAL ISSUE DATE:** MAY 27, 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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