

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ZAR ULTRA MAX OMU – SEMI-GLOSS
PRODUCT CODE: 67

HMS CODES: H F R P
1 0 0

SECTION I – MANUFACTURER IDENTIFICATION

MANUFACTURE'S NAME: UNITED GILSONITE LABORATORIES
ADDRESS: 1396 JEFFERSON AVENUE
SCRANTON, PA 18509

EMERGENCY PHONE: (800) 424-9300
INFORMATION PHONE: (570) 344-1202
NAME OF PREPARER: R. BARAKO

DATE ISSUED: JANUARY 2006

SECTION II – HAZARDOUS INGREDIENTS/SARA III INFORMATION

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE mmHg@TEMP	WEIGHT PERCENT
		OSHA PEL	ACGIH TLV	OTHER		
WATER	7732-18-5	NOT ESTAB	NOT ESTAB	NOT ESTAB	1.0 (68F)	62
POLYURETHANE POLYMER	PROPRIETARY	NOT ESTAB	NOT ESTAB	NOT ESTAB	N/A	28
*N-METHYL-2-PYRROLIDONE	872-50-4	NOT ESTAB	NOT ESTAB	NOT ESTAB	0.3 (77F)	2
PROPYLENE GLYCOL	57-55-6	NOT ESTAB	NOT ESTAB	NOT ESTAB	.220(68F)	3
TRIPROPYLENE GLYCOL MONO-METHYL ETHER	25498-49-1	NOT ESTAB	NOT ESTAB	NOT ESTAB	.020 (68F)	3
AMORPHOUS FUMED SILICA	112945-52-5	20 MPPCF	10 MG/M ³	NOT ESTAB	N/A	<5

*Indicates chemical(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372.

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 212 (F)
VAPOR DENSITY: HEAVIER THAN AIR
COATING VOC: DOES NOT EXCEED MAXIMUM VOC 250 G/L (VOS 2.08 LB/GAL)
SOLUBILITY IN WATER: SOLUBLE
APPEARANCE AND ODOR: CLEAR TO MILKY, TYPICAL AMINE ODOR

SPECIFIC GRAVITY (H₂O =1) 1.06
EVAPORATION RATE: SLOWER THAN ETHER

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT: N/A

METHOD USED: N/A

FLAMMABLE LIMITS IN AIR BY VOLUME:

LOWER: 1.3% **UPPER:** 9.5%

EXTINGUISHING MEDIA:

SPECIAL FIRE FIGHTING PROCEDURES: CONTAINER MAY SWELL AND BURST DURING A FIRE DUE TO INTERNAL PRESSURE CAUSED BY HEAT. THIS MAY CAUSE A SLIPPERY CONDITION ON FLOORS

UNUSUAL FIRE AND EXPLOSION HAZARDS: IRRITATING AND TOXIC SUBSTANCES WILL BE EMITTED UPON COMBUSTION, BURNING OR DECOMPOSITION OF THE DRY SOLIDS

SECTION V – REACTIVITY DATA

STABILITY: PRODUCT IS STABLE

CONDITIONS TO AVOID: TEMPERATURES BELOW 32 (F) FOR STORAGE. TEMPERATURES BELOW 50 (F) FOR APPLICATION

INCOMPATIBILITY (MATERIALS TO AVOID): ACIDIC CONDITIONS WILL CAUSE THE URETHANE RESIN TO PRECIPITATE OUT OF SOLUTION

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON MONOXIDE. CARBON DIOXIDE AND OXIDES OF NITROGEN

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI – HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: IN IT'S WET STATE, THIS PRODUCT SHOULD NOT POSE ANY THREAT TO HEALTH DUE TO OVEREXPOSURE

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: DIRECT CONTACT MAY CAUSE BURNING, TEARING, REDNESS AND SWELLING

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: CAN CAUSE SLIGHT IRRITATION

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: MAY PRODUCE SIGNS OF INTOXICATION CHARACTERIZED BY INCOORDINATION, DIZZINESS, DROWSINESS, HEADACHE, NAUSEA, MENTAL CONFUSION DEPENDING ON THE QUANTITY OF MATERIAL INGESTED

HEALTH HAZARDS (ACUTE AND CHRONIC): 1-METHYL-2-PYROLIDINONE: PROLONGED OR REPEATED SKIN CONTACT MAY DEFAT THE SKIN AND PRODUCE DERMATITIS

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: PRE-EXISTING SKIN PROBLEMS MAY BE AGGRAVATED BY PROLONGED OR REPEATED CONTACT. PERSONS WITH SENSITIVE AIRWAYS (E.G., ASTHMATICS) MAY REACT TO VAPORS

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN IF IRRITATION PERSISTS

SKIN: WASH AFFECTED AREA WITH SOAP AND WATER. CONSULT A PHYSICIAN IF IRRITATION PERSISTS

INGESTION: SEEK MEDICAL ATTENTION. IF INDIVIDUAL IS DROWSY OR UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH; PLACE INDIVIDUAL ON THE LEFT SIDE WITH HEAD DOWN. CONTACT A PHYSICIAN, MEDICAL FACILITY OR POISON CONTROL CENTER FOR ADVICE ABOUT WHETHER TO INDUCE VOMITING

INHALATION: REMOVE VICTIM TO FRESH AIR

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: DIKE AREA AROUND SPILL. APPLY ABSORBENT MATERIAL, THEN SWEEP UP AND PLACE IN PROPER CONTAINERS

WASTE DISPOSAL METHOD: DISPOSE OF IN APPROVED SITES ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: AVOID BREATHING SANDING DUST. KEEP FROM FREEZING. STORE MATERIAL IN AREAS WHERE TEMPERATURES RANGE FROM 50 (F) TO 90 (F)

OTHER PRECAUTIONS: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, REPRODUCTIVE OR DEVELOPMENTAL TOXICITY

SECTIONS VIII – CONTROL MEASURES

RESPIRATORY PROTECTION: WHEN SPRAYING OR SANDING DRY FILM, USE NIOSH APPROVED RESPIRATOR WITH DUST PARTICLE AND ORGANIC VAPOR CARTRIDGES

VENTILATION: USE ADEQUATE VENTILATION IN VOLUME AND PATTERN TO MAINTAIN EXPOSURE LEVELS BELOW THAT LISTED IN SECTION II

PROTECTIVE GLOVES: USE NEOPRENE RUBBER GLOVES TO PREVENT SKIN CONTACT

EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE

WORK / HYGIENIC PRACTICES: WASH HANDS BEFORE EATING, SMOKING OR USING WASH ROOM

SECTION IX – DISCLAIMER

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PRODUCT CODE: 66

HMIS CODES: H F R P
1 0 0

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ADDRESS: 1396 JEFFERSON AVENUE
SCRANTON, PA 18509

EMERGENCY PHONE: (800) 424-9300
INFORMATION PHONE: (570) 344-1202
NAME OF PREPARER: R. BARAKO

DATE ISSUED: JANUARY 2006

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POLYURETHANE POLYMER	PROPRIETARY	NOT ESTAB	NOT ESTAB	NOT ESTAB	N/A	28
*N-METHYL-2-PYRROLIDONE	872-50-4	NOT ESTAB	NOT ESTAB	NOT ESTAB	0.3 (77F)	2
PROPYLENE GLYCOL	57-55-6	NOT ESTAB	NOT ESTAB	NOT ESTAB	.220(68F)	3
TRIPROPYLENE GLYCOL MONO-METHYL ETHER	25498-49-1	NOT ESTAB	NOT ESTAB	NOT ESTAB	.020 (68F)	3

*Indicates chemical(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372.

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 212 (F)
VAPOR DENSITY: HEAVIER THAN AIR
COATING VOC: 1.81 LB GAL (220 G/L)
SOLUBILITY IN WATER: SOLUBLE
APPEARANCE AND ODOR: CLEAR TO MILKY, TYPICAL AMINE ODOR

SPECIFIC GRAVITY (H₂O =1) 1.06
EVAPORATION RATE: SLOWER THAN ETHER

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT: N/A

METHOD USED: N/A

FLAMMABLE LIMITS IN AIR BY VOLUME:

LOWER: 1.3% UPPER: 9.5%

EXTINGUISHING MEDIA:

SPECIAL FIRE FIGHTING PROCEDURES: CONTAINER MAY SWELL AND BURST DURING A FIRE DUE TO INTERNAL PRESSURE CAUSED BY HEAT. THIS MAY CAUSE A SLIPPERY CONDITION ON FLOORS

UNUSUAL FIRE AND EXPLOSION HAZARDS: IRRITATING AND TOXIC SUBSTANCES WILL BE EMITTED UPON COMBUSTION, BURNING OR DECOMPOSITION OF THE DRY SOLIDS

SECTION V – REACTIVITY DATA

STABILITY: PRODUCT IS STABLE

CONDITIONS TO AVOID: TEMPERATURES BELOW 32 (F) FOR STORAGE. TEMPERATURES BELOW 50 (F) FOR APPLICATION

INCOMPATIBILITY (MATERIALS TO AVOID): ACIDIC CONDITIONS WILL CAUSE THE URETHANE RESIN TO PRECIPITATE OUT OF SOLUTION

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON MONOXIDE. CARBON DIOXIDE AND OXIDES OF NITROGEN

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI – HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: IN IT'S WET STATE, THIS PRODUCT SHOULD NOT POSE ANY THREAT TO HEALTH DUE TO OVEREXPOSURE

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: DIRECT CONTACT MAY CAUSE BURNING, TEARING, REDNESS AND SWELLING

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: CAN CAUSE SLIGHT IRRITATION

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: MAY PRODUCE SIGNS OF INTOXICATION CHARACTERIZED BY INCOORDINATION, DIZZINESS, DROWSINESS, HEADACHE, NAUSEA, MENTAL CONFUSION DEPENDING ON THE QUANTITY OF MATERIAL INGESTED

HEALTH HAZARDS (ACUTE AND CHRONIC): 1-METHYL-2-PYROLIDINONE: PROLONGED OR REPEATED SKIN CONTACT MAY DEFAT THE SKIN AND PRODUCE DERMATITIS

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: PRE-EXISTING SKIN PROBLEMS MAY BE AGGRAVATED BY PROLONGED OR REPEATED CONTACT. PERSONS WITH SENSITIVE AIRWAYS (E.G., ASTHMATICS) MAY REACT TO VAPORS

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN IF IRRITATION PERSISTS

SKIN: WASH AFFECTED AREA WITH SOAP AND WATER. CONSULT A PHYSICIAN IF IRRITATION PERSISTS

INGESTION: SEEK MEDICAL ATTENTION. IF INDIVIDUAL IS DROWSY OR UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH; PLACE INDIVIDUAL ON THE LEFT SIDE WITH HEAD DOWN. CONTACT A PHYSICIAN, MEDICAL FACILITY OR POISON CONTROL CENTER FOR ADVICE ABOUT WHETHER TO INDUCE VOMITING

INHALATION: REMOVE VICTIM TO FRESH AIR

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: DIKE AREA AROUND SPILL. APPLY ABSORBENT MATERIAL, THEN SWEEP UP AND PLACE IN PROPER CONTAINERS

WASTE DISPOSAL METHOD: DISPOSE OF IN APPROVED SITES ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: AVOID BREATHING SANDING DUST. KEEP FROM FREEZING. STORE MATERIAL IN AREAS WHERE TEMPERATURES RANGE FROM 50 (F) TO 90 (F)

OTHER PRECAUTIONS: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, REPRODUCTIVE OR DEVELOPMENTAL TOXICITY

SECTIONS VIII – CONTROL MEASURES

RESPIRATORY PROTECTION: WHEN SPRAYING OR SANDING DRY FILM, USE NIOSH APPROVED RESPIRATOR WITH DUST PARTICLE AND ORGANIC VAPOR CARTRIDGES

VENTILATION: USE ADEQUATE VENTILATION IN VOLUME AND PATTERN TO MAINTAIN EXPOSURE LEVELS BELOW THAT LISTED IN SECTION II

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EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE

WORK / HYGIENIC PRACTICES: WASH HANDS BEFORE EATING, SMOKING OR USING WASH ROOM

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MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ZAR ULTRA MAX OMU – SATIN
PRODUCT CODE: 68

HMIS CODES: H F R P
1 0 0

SECTION I – MANUFACTURER IDENTIFICATION

MANUFACTURE'S NAME: UNITED GILSONITE LABORATORIES
ADDRESS: 1396 JEFFERSON AVENUE
SCRANTON, PA 18509

EMERGENCY PHONE: (800) 424-9300
INFORMATION PHONE: (570) 344-1202
NAME OF PREPARER: R. BARAKO

DATE ISSUED: JANUARY 2006

SECTION II – HAZARDOUS INGREDIENTS/SARA III INFORMATION

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE mmHg@TEMP	WEIGHT PERCENT
		OSHA PEL	ACGIH TLV	OTHER		
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POLYURETHANE POLYMER	PROPRIETARY	NOT ESTAB	NOT ESTAB	NOT ESTAB	N/A	28
*N-METHYL-2-PYRROLIDONE	872-50-4	NOT ESTAB	NOT ESTAB	NOT ESTAB	0.3 (77F)	2
PROPYLENE GLYCOL	57-55-6	NOT ESTAB	NOT ESTAB	NOT ESTAB	.220(68F)	3
TRIPROPYLENE GLYCOL MONO- METHYL ETHER	25498-49-1	NOT ESTAB	NOT ESTAB	NOT ESTAB	.020 (68F)	3
AMORPHOUS FUMED SILICA	112945-52-5	20 MPPCF	10 MG/M ³	NOT ESTAB	N/A	<5

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SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 212 (F)
VAPOR DENSITY: HEAVIER THAN AIR
COATING VOC: DOES NOT EXCEED MAXIMUM VOC 250 G/L (VOS 2.08 LB/GAL)
SOLUBILITY IN WATER: SOLUBLE
APPEARANCE AND ODOR: CLEAR TO MILKY, TYPICAL AMINE ODOR

SPECIFIC GRAVITY (H₂O =1) 1.06
EVAPORATION RATE: SLOWER THAN ETHER

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT: N/A

METHOD USED: N/A

FLAMMABLE LIMITS IN AIR BY VOLUME:

LOWER: 1.3% **UPPER:** 9.5%

EXTINGUISHING MEDIA:

SPECIAL FIRE FIGHTING PROCEDURES: CONTAINER MAY SWELL AND BURST DURING A FIRE DUE TO INTERNAL PRESSURE CAUSED BY HEAT. THIS MAY CAUSE A SLIPPERY CONDITION ON FLOORS

UNUSUAL FIRE AND EXPLOSION HAZARDS: IRRITATING AND TOXIC SUBSTANCES WILL BE EMITTED UPON COMBUSTION, BURNING OR DECOMPOSITION OF THE DRY SOLIDS

SECTION V – REACTIVITY DATA

STABILITY: PRODUCT IS STABLE

CONDITIONS TO AVOID: TEMPERATURES BELOW 32 (F) FOR STORAGE. TEMPERATURES BELOW 50 (F) FOR APPLICATION

INCOMPATIBILITY (MATERIALS TO AVOID): ACIDIC CONDITIONS WILL CAUSE THE URETHANE RESIN TO PRECIPITATE OUT OF SOLUTION

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON MONOXIDE. CARBON DIOXIDE AND OXIDES OF NITROGEN

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI – HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: IN IT'S WET STATE, THIS PRODUCT SHOULD NOT POSE ANY THREAT TO HEALTH DUE TO OVEREXPOSURE

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: DIRECT CONTACT MAY CAUSE BURNING, TEARING, REDNESS AND SWELLING

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HEALTH HAZARDS (ACUTE AND CHRONIC): 1-METHYL-2-PYROLIDINONE: PROLONGED OR REPEATED SKIN CONTACT MAY DEFAT THE SKIN AND PRODUCE DERMATITIS

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: PRE-EXISTING SKIN PROBLEMS MAY BE AGGRAVATED BY PROLONGED OR REPEATED CONTACT. PERSONS WITH SENSITIVE AIRWAYS (E.G., ASTHMATICS) MAY REACT TO VAPORS

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN IF IRRITATION PERSISTS

SKIN: WASH AFFECTED AREA WITH SOAP AND WATER. CONSULT A PHYSICIAN IF IRRITATION PERSISTS

INGESTION: SEEK MEDICAL ATTENTION. IF INDIVIDUAL IS DROWSY OR UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH; PLACE INDIVIDUAL ON THE LEFT SIDE WITH HEAD DOWN. CONTACT A PHYSICIAN, MEDICAL FACILITY OR POISON CONTROL CENTER FOR ADVICE ABOUT WHETHER TO INDUCE VOMITING

INHALATION: REMOVE VICTIM TO FRESH AIR

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: DIKE AREA AROUND SPILL. APPLY ABSORBENT MATERIAL, THEN SWEEP UP AND PLACE IN PROPER CONTAINERS

WASTE DISPOSAL METHOD: DISPOSE OF IN APPROVED SITES ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: AVOID BREATHING SANDING DUST. KEEP FROM FREEZING. STORE MATERIAL IN AREAS WHERE TEMPERATURES RANGE FROM 50 (F) TO 90 (F)

OTHER PRECAUTIONS: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, REPRODUCTIVE OR DEVELOPMENTAL TOXICITY

SECTIONS VIII – CONTROL MEASURES

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PRODUCT CODE: 69

HMIS CODES: H F R P
1 0 0

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DATE ISSUED: OCTOBER 2006

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EVAPORATION RATE: SLOWER THAN ETHER

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FLASHPOINT: N/A

METHOD USED: N/A

FLAMMABLE LIMITS IN AIR BY VOLUME:

LOWER: 1.3% **UPPER:** 9.5%

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INHALATION: REMOVE VICTIM TO FRESH AIR

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OTHER PRECAUTIONS: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, REPRODUCTIVE OR DEVELOPMENTAL TOXICITY

SECTIONS VIII – CONTROL MEASURES

RESPIRATORY PROTECTION: WHEN SPRAYING OR SANDING DRY FILM, USE NIOSH APPROVED RESPIRATOR WITH DUST PARTICLE AND ORGANIC VAPOR CARTRIDGES

VENTILATION: USE ADEQUATE VENTILATION IN VOLUME AND PATTERN TO MAINTAIN EXPOSURE LEVELS BELOW THAT LISTED IN SECTION II

PROTECTIVE GLOVES: USE NEOPRENE RUBBER GLOVES TO PREVENT SKIN CONTACT

EYE PROTECTION: USE SAFETY EYEWEAR WITH SPLASH GUARDS

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE

WORK / HYGIENIC PRACTICES: WASH HANDS BEFORE EATING, SMOKING OR USING WASH ROOM

SECTION IX – DISCLAIMER

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