



MATERIAL SAFETY DATA SHEET

INDURETHANE 6700 FLAT WTB

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7/11/2012

PRODUCT NAME: INDURETHANE 6700 FLAT WTB
PRODUCT CODE: A8-1704W

HMIS CODES: H F R P
2 3 0 H

SECTION I - MANUFACTURERS IDENTIFICATION

MANUFACTURER'S NAME: INDURON PROTECTIVE COATINGS, INC.
ADDRESS: 3333 RICHARD ARRINGTON Jr BLVD, N.
BIRMINGHAM, ALABAMA 35234

EMERGENCY PHONE: 1-800-424-9300 INFORMATION PHONE: (205) 324-9584
DATE PRINTED: 7/11/2012

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE		WEIGHT
		mm Hg @	TEMP	PERCENT
! SILICA, AMORPHOUS ACGIH TLV=10 MG/M3 (TOTAL), OSHA PEL=20 MPPCF	7631-86-9	N/A		5 - 10%
N-BUTYL ACETATE ACGIH TWA=150 PPM, OSHA PEL=150 PPM, ACGIH STEL=200 PPM	123-86-4	8.43	20 C	5 - 10%
XYLENE (MIXED ISOMERS) PEL/TWA=100PPM, TLV/TWA=100PPM, TLV/STEL=150PPM	1330-20-7	5.1	68 F	< 5%
METHYL ISOAMYL KETONE ACGIH TLV/TWA = 50 PPM	110-12-3	4.5	20 C	< 5%
ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE NONE ESTABLISHED	112-07-2	<1	68 F	3.31
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE NONE ESTABLISHED	108-65-6	3.7	20 C	< 5%
* XYLENE (MIXED ISOMERS) PEL/TWA=100PPM, TLV/TWA=100PPM, TLV/STEL=150PPM 75% DIMETHYLBENZENE CAS 1330-20-7 25% ETHYLBENZENE CAS 100-41-4		5.1	68 F	2.23
2- (2HYDROXY-3,5-DI-TERT-AMYLPHENYL) BENZOTRIAZOL CIBA-GEIGY 0.1 MG/M3	25973-55-1	NEG.		< 5%
BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) SEBACATE	41556-26-7	NEG.		< 5%

* INDICATES TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF 40 CFR 372.

! NOTE: PIGMENTS DO NOT NORMALLY POSE A DUST HAZARD IN COATINGS.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 258 F - 4046 F

DENSITY: 12.06376 lb/g1

VAPOR DENSITY: HEAVIER THAN AIR.

EVAPORATION RATE: SLOWER THAN DIETHYL ETHER.

COATING VOC (Water Excluded): 2.7 lb/g1, 323 g/l

SOLUBILITY IN WATER: VERY SLIGHTLY SOLUBLE.

APPEARANCE AND ODOR:

Opaque, Viscous liquid. Aromatic Hydrocarbon and Ketone solvent odors.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 80 F

METHOD USED: CC

FLAMMABLE LIMITS IN AIR BY VOLUME-LOWER: .9

UPPER: 13

EXTINGUISHING MEDIA:

CARBON DIOXIDE, FOAM, DRY CHEMICAL, WATER SPRAY.

SPECIAL FIREFIGHTING PROCEDURES:

USE SELF CONTAINED BREATHING APPARATUS. WATER SHOULD BE USED AS A FOG ONLY, TO KEEP CONTAINERS COOL IN ORDER TO MINIMIZE PRESSURE BUILDUP AND EXPLOSION.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

THIS MATERIAL IS FLAMMABLE AND MAY BE IGNITED BY HEAT, SPARKS, FLAME AND OTHER SOURCES OF IGNITION (E.G. STATIC ELECTRICITY, PILOT LIGHTS, MECHANICAL/ELECTRICAL EQUIPMENT). VAPORS MAY TRAVEL CONSIDERABLE DISTANCES TO A SOURCE OF IGNITION WHERE THEY MAY IGNITE, FLASHBACK OR EXPLODE. VAPORS ARE HEAVIER THAN AIR AND MAY ACCUMULATE IN LOW AREAS, WHERE THEY MAY REACH IGNITABLE CONCENTRATIONS THOUGH THE TEMPERATURE MAY REMAIN BELOW THE FLASH POINT. IF CONTAINER IS NOT PROPERLY COOLED, IT MAY EXPLODE IN THE HEAT OF A FIRE.

SECTION V - REACTIVITY DATA

STABILITY: STABLE UNDER NORMAL CONDITIONS OF STORAGE AND HANDLING.

CONDITIONS TO AVOID:

AVOID HEAT, SPARKS, FLAME AND OTHER POSSIBLE IGNITION SOURCES.

INCOMPATIBILITY (MATERIALS TO AVOID):

AVOID CONTACT WITH STRONG OXIDIZING AGENTS. MIXING WITH STRONG LEWIS OR MINERAL ACIDS AND STRONG MINERAL AND ORGANIC BASES, ESPECIALLY PRIMARY AND SECONDARY ALIPHATIC AMINES, CAN CAUSE GENERATION OF CONSIDERABLE HEAT.

HAZARDOUS DECOMPOSITION BYPRODUCTS:

CARBON MONOXIDE, ALDEHYDES AND ACIDS AND OTHER ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR.

SECTION VI - HEALTH HAZARD DATA

SKIN CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

CAN DRY AND DEFAT SKIN CAUSING CRACKS, IRRITATION AND DERMATITIS.

EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

CAN CAUSE SEVERE IRRITATION, TEARING, REDNESS AND BLURRED VISION.

SENSITIZATION:

NOT A SKIN SENSITIZER.

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

BREATHING HIGH CONCENTRATIONS OF AEROSOLS OF THIS MATERIAL MAY CAUSE IRRITATION OF THE NOSE, THROAT AND RESPIRATORY TRACT. MAY CAUSE EARLY MODERATE CENTRAL NERVOUS SYSTEM DEPRESSION AS EVIDENCED BY GIDDINESS, HEADACHE AND NAUSEA. IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR. FREQUENT INHALATION OF HIGH CONCENTRATIONS OF DRY DUST GENERATED BY SANDING, CUTTING, BLASTING OR GRINDING THIS MATERIAL OVER A LONG PERIOD OF TIME MAY CAUSE CANCER. RESPIRATORY SYMPTOMS ASSOCIATED WITH PRE-EXISTING LUNG DISORDERS (E.G., ASTHMA-LIKE CONDITIONS) MAY BE AGGRAVATED BY EXPOSURE TO DUST AND AEROSOLS OF THIS MATERIAL.

ORAL INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

CAN CAUSE GASTROINTESTINAL IRRITATION, VOMITING, NAUSEA, AND DIARRHEA.

EFFECTS OF OVEREXPOSURE:

INHALATION:

DIZZINESS, BREATHING DIFFICULTY, HEADACHES, LOSS OF COORDINATION.

EYE CONTACT:

SEVERE IRRITATION, TEARING, REDNESS, AND BLURRED VISION.

SKIN CONTACT:

CAN DRY AND DEFAT SKIN CAUSING CRACKS, IRRITATION AND DERMATITIS.

INGESTION:

CAN CAUSE GASTROINTESTINAL IRRITATION, VOMITING, NAUSEA, AND DIARRHEA.

CARCINOGENICITY: NTP?YES

IARC MONOGAPHS?YES

NOTE: DUST FROM THIS MATERIAL MAY CONTAIN CRYSTALLINE SILICA. PERSONS IN THE IMMEDIATE VICINITY OF SANDING, CUTTING, BLASTING AND GRINDING OPERATIONS ON THE DRY FILM SHOULD WEAR RESPIRATORY PROTECTION. REFER TO THE RESPIRATORY PROTECTION SECTION OF THIS DOCUMENT.

OSHA REGULATED?YES.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

ALLERGY, ECZEMA, ASTHMA, OTHER SKIN CONDITIONS.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT:

IRRIGATE WITH FLOWING WATER IMMEDIATELY AND CONTINUOUSLY FOR 15 MINUTES.
CONSULT MEDICAL PERSONNEL.

SKIN CONTACT:

IMMEDIATELY REMOVE CONTAMINATED CLOTHING. WASH CLOTHING BEFORE REUSE. WASH OFF WITH SOAP AND FLOWING WATER OR SHOWER. IF SKIN IRRITATION PERSISTS, SEE A PHYSICIAN.

INGESTION:

DO NOT INDUCE VOMITING. CALL A PHYSICIAN AND/OR TRANSPORT TO A MEDICAL FACILITY IMMEDIATELY.

INHALATION OVEREXPOSURE:

IF RESPIRATORY SYMPTOMS DEVELOP, MOVE VICTIM AWAY FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. IF VICTIM IS NOT BREATHING, IMMEDIATELY BEGIN ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULTIES DEVELOP, OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. GET IMMEDIATE MEDICAL ATTENTION.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

REMOVE ALL SOURCES OF IGNITION. PROVIDE EXPLOSION PROOF VENTILATION. DIKE SPILL AREA AND TAKE UP ON ABSORBENT MATERIAL. SHOVEL WITH NON-SPARKING TOOLS INTO CLOSABLE CONTAINER FOR DISPOSAL. WEAR PROTECTIVE EQUIPMENT SPECIFIED BELOW. THOROUGHLY FLUSH CONTAMINATED AREA WITH WATER.

WASTE DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPOR, MIST OR SPRAY. USE ONLY WITH GOOD VENTILATION. WASH AFTER HANDLING. STORE IN CLOSED CONTAINERS IN COOL, WELL VENTILATED AREA.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

ATMOSPHERIC CONCENTRATIONS SHOULD BE MAINTAINED BELOW THE THRESHOLD LIMIT GUIDELINES PROVIDED. WHEN THESE CONCENTRATIONS CANNOT BE MAINTAINED, RESPIRATORY PROTECTION IS REQUIRED. USE NIOSH/MSA APPROVED CHEMICAL/MECHANICAL



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FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE, GASEOUS AND VAPOR MATERIALS. IN CONFINED AREAS, USE A NIOSH/MSA APPROVED POSITIVE-PRESSURE, SELF-CONTAINED BREATHING APPARATUS. WEAR RESPIRATORY PROTECTION SUCH AS NIOSH/MSHA TC-21C-132 DUST/MIST RESPIRATOR WHEN SANDING, GRINDING, BLASTING OR CUTTING THE DRY FILM OF THIS MATERIAL.

VENTILATION:

WHERE POSSIBLE, PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE LEVELS BELOW THE THRESHOLD LIMIT VALUES.

SKIN PROTECTION:

FOR BRIEF CONTACT, NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING CLOTHING SHOULD BE NEEDED. USE IMPERVIOUS GLOVES WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT MIGHT OCCUR

EYE PROTECTION:

USE SPLASH PROOF CHEMICAL GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

OTHER RECOMMENDED PROTECTIVE MEASURES:

USE IMPERMEABLE CLOTHING, APRONS AND PROTECTIVE COVERING WHENEVER POSSIBLE TO PREVENT SKIN CONTACT. WEAR HEAD COVERING WHENEVER POSSIBLE.

RECOMMENDED HYGIENIC PRACTICES:

WASH HANDS AND ARMS WITH SOAP AND WATER PRIOR TO EATING, DRINKING, SMOKING OR USING THE LAVATORY.

SECTION IX - DISCLAIMERS

THE INFORMATION CONTAINED HEREIN IS BASED PRIMARILY ON DATA PROVIDED US BY OUR SUPPLIERS, AND WE BELIEVE IT TO BE CORRECT. HOWEVER, INDURON COATINGS, INC. MAKES NO WARRENTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. INDURON ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.



MATERIAL SAFETY DATA SHEET

INDURETHANE 6700 FLAT MTB

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PRODUCT NAME: INDURETHANE 6700 FLAT MTB
PRODUCT CODE: A8-1705M

HMIS CODES: H F R P
2 3 0 H

SECTION I - MANUFACTURERS IDENTIFICATION

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ADDRESS: 3333 RICHARD ARRINGTON Jr BLVD, N.
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		mm Hg @	TEMP	PERCENT
! TALC (HYDRATED MAGNESIUM SILICATE) TALC (NONASBESTIFORM) OSHA PEL=20 MPPCF, ACGIH TLV=2 MG/M3 (RESPIRABLE)	14807-96-6	N/A		15 - 20%
N-BUTYL ACETATE ACGIH TWA=150 PPM, OSHA PEL=150 PPM, ACGIH STEL=200 PPM	123-86-4	8.43	20 C	5 - 10%
! SILICA, AMORPHOUS ACGIH TLV=10 MG/M3 (TOTAL), OSHA PEL=20 MPPCF	7631-86-9	N/A		5 - 10%
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE NONE ESTABLISHED	108-65-6	3.7	20 C	< 5%
METHYL ISOAMYL KETONE ACGIH TLV/TWA = 50 PPM	110-12-3	4.5	20 C	< 5%
* XYLENE (MIXED ISOMERS) PEL/TWA=100PPM, TLV/TWA=100PPM, TLV/STEL=150PPM 75% DIMETHYLBENZENE CAS 1330-20-7 25% ETHYLBENZENE CAS 100-41-4		5.1	68 F	3.82
ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE NONE ESTABLISHED	112-07-2	<1	68 F	3.75
BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) SEBACATE	41556-26-7	NEG.		< 5%
2-(2HYDROXY-3,5-DI-TERT-AMYLPHENYL)BENZOTRIAZOL CIBA-GEIGY 0.1 MG/M3	25973-55-1	NEG.		< 5%

* INDICATES TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF 40 CFR 372.

! NOTE: PIGMENTS DO NOT NORMALLY POSE A DUST HAZARD IN COATINGS.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 258 F - 4046 F **DENSITY:** 11.62425 lb/g1

VAPOR DENSITY: HEAVIER THAN AIR.

EVAPORATION RATE: SLOWER THAN DIETHYL ETHER.

COATING VOC (Water Excluded): 2.71 lb/g1, 325 g/l

SOLUBILITY IN WATER: VERY SLIGHTLY SOLUBLE.

APPEARANCE AND ODOR:
Opaque, Viscous liquid. Aromatic Hydrocarbon and Ketone solvent odors.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 80 F **METHOD USED:** CC

FLAMMABLE LIMITS IN AIR BY VOLUME-LOWER: .9 **UPPER:** 13

EXTINGUISHING MEDIA:
CARBON DIOXIDE, FOAM, DRY CHEMICAL, WATER SPRAY.

SPECIAL FIREFIGHTING PROCEDURES:
USE SELF CONTAINED BREATHING APPARATUS. WATER SHOULD BE USED AS A FOG ONLY, TO KEEP CONTAINERS COOL IN ORDER TO MINIMIZE PRESSURE BUILDUP AND EXPLOSION.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
THIS MATERIAL IS FLAMMABLE AND MAY BE IGNITED BY HEAT, SPARKS, FLAME AND OTHER SOURCES OF IGNITION (E.G. STATIC ELECTRICITY, PILOT LIGHTS, MECHANICAL/ELECTRICAL EQUIPMENT). VAPORS MAY TRAVEL CONSIDERABLE DISTANCES TO A SOURCE OF IGNITION WHERE THEY MAY IGNITE, FLASHBACK OR EXPLODE. VAPORS ARE HEAVIER THAN AIR AND MAY ACCUMULATE IN LOW AREAS, WHERE THEY MAY REACH IGNITABLE CONCENTRATIONS THOUGH THE TEMPERATURE MAY REMAIN BELOW THE FLASH POINT. IF CONTAINER IS NOT PROPERLY COOLED, IT MAY EXPLODE IN THE HEAT OF A FIRE.

SECTION V - REACTIVITY DATA

STABILITY: STABLE UNDER NORMAL CONDITIONS OF STORAGE AND HANDLING.

CONDITIONS TO AVOID:
AVOID HEAT, SPARKS, FLAME AND OTHER POSSIBLE IGNITION SOURCES.

INCOMPATIBILITY (MATERIALS TO AVOID):
AVOID CONTACT WITH STRONG OXIDIZING AGENTS. MIXING WITH STRONG LEWIS OR MINERAL ACIDS AND STRONG MINERAL AND ORGANIC BASES, ESPECIALLY PRIMARY AND SECONDARY ALIPHATIC AMINES, CAN CAUSE GENERATION OF CONSIDERABLE HEAT.

HAZARDOUS DECOMPOSITION BYPRODUCTS:

CARBON MONOXIDE, ALDEHYDES AND ACIDS AND OTHER ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR.

SECTION VI - HEALTH HAZARD DATA

SKIN CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

CAN DRY AND DEFAT SKIN CAUSING CRACKS, IRRITATION AND DERMATITIS.

EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

CAN CAUSE SEVERE IRRITATION, TEARING, REDNESS AND BLURRED VISION.

SENSITIZATION:

NOT A SKIN SENSITIZER.

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IARC MONOGAPHS?YES

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WHERE POSSIBLE, PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE LEVELS BELOW THE THRESHOLD LIMIT VALUES.

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OTHER RECOMMENDED PROTECTIVE MEASURES:

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PRODUCT CODE: A8-1707C

HMIS CODES: H F R P
2 3 0 H

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* XYLENE (MIXED ISOMERS) PEL/TWA=100PPM, TLV/TWA=100PPM, TLV/STEL=150PPM 75% DIMETHYLBENZENE CAS 1330-20-7 25% ETHYLBENZENE CAS 100-41-4		5.1	68 F	11.43
N-BUTYL ACETATE ACGIH TWA=150 PPM, OSHA PEL=150 PPM, ACGIH STEL=200 PPM	123-86-4	8.43	20 C	5 - 10%
! SILICA, AMORPHOUS ACGIH TLV=10 MG/M3 (TOTAL), OSHA PEL=20 MPPCF	7631-86-9	N/A		5 - 10%
ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE NONE ESTABLISHED	112-07-2	<1	68 F	4.10
METHYL ISOAMYL KETONE ACGIH TLV/TWA = 50 PPM	110-12-3	4.5	20 C	< 5%
2- (2HYDROXY-3,5-DI-TERT-AMYLPHENYL) BENZOTRIAZOL CIBA-GEIGY 0.1 MG/M3	25973-55-1	NEG.		< 5%
BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) SEBACATE	41556-26-7	NEG.		< 5%

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BOILING RANGE: 258 F - 4046 F

DENSITY: 10.31138 lb/g1

VAPOR DENSITY: HEAVIER THAN AIR.

EVAPORATION RATE: SLOWER THAN DIETHYL ETHER.

COATING VOC (Water Excluded): 2.88 lb/g1, 346 g/l

SOLUBILITY IN WATER: VERY SLIGHTLY SOLUBLE.

APPEARANCE AND ODOR:

Opaque, Viscous liquid. Aromatic Hydrocarbon and Ketone solvent odors.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 80 F

METHOD USED: CC

FLAMMABLE LIMITS IN AIR BY VOLUME-LOWER: .9

UPPER: 13

EXTINGUISHING MEDIA:

CARBON DIOXIDE, FOAM, DRY CHEMICAL, WATER SPRAY.

SPECIAL FIREFIGHTING PROCEDURES:

USE SELF CONTAINED BREATHING APPARATUS. WATER SHOULD BE USED AS A FOG ONLY, TO KEEP CONTAINERS COOL IN ORDER TO MINIMIZE PRESSURE BUILDUP AND EXPLOSION.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

THIS MATERIAL IS FLAMMABLE AND MAY BE IGNITED BY HEAT, SPARKS, FLAME AND OTHER SOURCES OF IGNITION (E.G. STATIC ELECTRICITY, PILOT LIGHTS, MECHANICAL/ELECTRICAL EQUIPMENT). VAPORS MAY TRAVEL CONSIDERABLE DISTANCES TO A SOURCE OF IGNITION WHERE THEY MAY IGNITE, FLASHBACK OR EXPLODE. VAPORS ARE HEAVIER THAN AIR AND MAY ACCUMULATE IN LOW AREAS, WHERE THEY MAY REACH IGNITABLE CONCENTRATIONS THOUGH THE TEMPERATURE MAY REMAIN BELOW THE FLASH POINT. IF CONTAINER IS NOT PROPERLY COOLED, IT MAY EXPLODE IN THE HEAT OF A FIRE.

SECTION V - REACTIVITY DATA

STABILITY: STABLE UNDER NORMAL CONDITIONS OF STORAGE AND HANDLING.

CONDITIONS TO AVOID:

AVOID HEAT, SPARKS, FLAME AND OTHER POSSIBLE IGNITION SOURCES.

INCOMPATIBILITY (MATERIALS TO AVOID):

AVOID CONTACT WITH STRONG OXIDIZING AGENTS. MIXING WITH STRONG LEWIS OR MINERAL ACIDS AND STRONG MINERAL AND ORGANIC BASES, ESPECIALLY PRIMARY AND SECONDARY ALIPHATIC AMINES, CAN CAUSE GENERATION OF CONSIDERABLE HEAT.

HAZARDOUS DECOMPOSITION BYPRODUCTS:

CARBON MONOXIDE, ALDEHYDES AND ACIDS AND OTHER ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR.

SECTION VI - HEALTH HAZARD DATA

SKIN CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

CAN DRY AND DEFAT SKIN CAUSING CRACKS, IRRITATION AND DERMATITIS.

EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

CAN CAUSE SEVERE IRRITATION, TEARING, REDNESS AND BLURRED VISION.

SENSITIZATION:

NOT A SKIN SENSITIZER.

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

BREATHING HIGH CONCENTRATIONS OF AEROSOLS OF THIS MATERIAL MAY CAUSE IRRITATION OF THE NOSE, THROAT AND RESPIRATORY TRACT. MAY CAUSE EARLY MODERATE CENTRAL NERVOUS SYSTEM DEPRESSION AS EVIDENCED BY GIDDINESS, HEADACHE AND NAUSEA. IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR. FREQUENT INHALATION OF HIGH CONCENTRATIONS OF DRY DUST GENERATED BY SANDING, CUTTING, BLASTING OR GRINDING THIS MATERIAL OVER A LONG PERIOD OF TIME MAY CAUSE CANCER. RESPIRATORY SYMPTOMS ASSOCIATED WITH PRE-EXISTING LUNG DISORDERS (E.G., ASTHMA-LIKE CONDITIONS) MAY BE AGGRAVATED BY EXPOSURE TO DUST AND AEROSOLS OF THIS MATERIAL.

ORAL INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

CAN CAUSE GASTROINTESTINAL IRRITATION, VOMITING, NAUSEA, AND DIARRHEA.

EFFECTS OF OVEREXPOSURE:

INHALATION:

DIZZINESS, BREATHING DIFFICULTY, HEADACHES, LOSS OF COORDINATION.

EYE CONTACT:

SEVERE IRRITATION, TEARING, REDNESS, AND BLURRED VISION.

SKIN CONTACT:

CAN DRY AND DEFAT SKIN CAUSING CRACKS, IRRITATION AND DERMATITIS.

INGESTION:

CAN CAUSE GASTROINTESTINAL IRRITATION, VOMITING, NAUSEA, AND DIARRHEA.

CARCINOGENICITY: NTP?YES

IARC MONOGAPHS?YES

NOTE: DUST FROM THIS MATERIAL MAY CONTAIN CRYSTALLINE SILICA. PERSONS IN THE IMMEDIATE VICINITY OF SANDING, CUTTING, BLASTING AND GRINDING OPERATIONS ON THE DRY FILM SHOULD WEAR RESPIRATORY PROTECTION. REFER TO THE RESPIRATORY PROTECTION SECTION OF THIS DOCUMENT.

OSHA REGULATED?YES.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

ALLERGY, ECZEMA, ASTHMA, OTHER SKIN CONDITIONS.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT:

IRRIGATE WITH FLOWING WATER IMMEDIATELY AND CONTINUOUSLY FOR 15 MINUTES.
CONSULT MEDICAL PERSONNEL.

SKIN CONTACT:

IMMEDIATELY REMOVE CONTAMINATED CLOTHING. WASH CLOTHING BEFORE REUSE. WASH OFF WITH SOAP AND FLOWING WATER OR SHOWER. IF SKIN IRRITATION PERSISTS, SEE A PHYSICIAN.

INGESTION:

DO NOT INDUCE VOMITING. CALL A PHYSICIAN AND/OR TRANSPORT TO A MEDICAL FACILITY IMMEDIATELY.

INHALATION OVEREXPOSURE:

IF RESPIRATORY SYMPTOMS DEVELOP, MOVE VICTIM AWAY FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. IF VICTIM IS NOT BREATHING, IMMEDIATELY BEGIN ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULTIES DEVELOP, OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. GET IMMEDIATE MEDICAL ATTENTION.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

REMOVE ALL SOURCES OF IGNITION. PROVIDE EXPLOSION PROOF VENTILATION. DIKE SPILL AREA AND TAKE UP ON ABSORBENT MATERIAL. SHOVEL WITH NON-SPARKING TOOLS INTO CLOSABLE CONTAINER FOR DISPOSAL. WEAR PROTECTIVE EQUIPMENT SPECIFIED BELOW. THOROUGHLY FLUSH CONTAMINATED AREA WITH WATER.

WASTE DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPOR, MIST OR SPRAY. USE ONLY WITH GOOD VENTILATION. WASH AFTER HANDLING. STORE IN CLOSED CONTAINERS IN COOL, WELL VENTILATED AREA.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

ATMOSPHERIC CONCENTRATIONS SHOULD BE MAINTAINED BELOW THE THRESHOLD LIMIT GUIDELINES PROVIDED. WHEN THESE CONCENTRATIONS CANNOT BE MAINTAINED, RESPIRATORY PROTECTION IS REQUIRED. USE NIOSH/MSA APPROVED CHEMICAL/MECHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE, GASEOUS AND VAPOR MATERIALS. IN CONFINED AREAS, USE A NIOSH/MSA APPROVED POSITIVE-PRESSURE, SELF-CONTAINED BREATHING APPARATUS. WEAR RESPIRATORY PROTECTION SUCH AS NIOSH/MSHA



MATERIAL SAFETY DATA SHEET

INDURETHANE 6700 FLAT CTB

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TC-21C-132 DUST/MIST RESPIRATOR WHEN SANDING, GRINDING, BLASTING OR CUTTING THE DRY FILM OF THIS MATERIAL.

VENTILATION:

WHERE POSSIBLE, PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE LEVELS BELOW THE THRESHOLD LIMIT VALUES.

SKIN PROTECTION:

FOR BRIEF CONTACT, NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING CLOTHING SHOULD BE NEEDED. USE IMPERVIOUS GLOVES WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT MIGHT OCCUR

EYE PROTECTION:

USE SPLASH PROOF CHEMICAL GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

OTHER RECOMMENDED PROTECTIVE MEASURES:

USE IMPERMEABLE CLOTHING, APRONS AND PROTECTIVE COVERING WHENEVER POSSIBLE TO PREVENT SKIN CONTACT. WEAR HEAD COVERING WHENEVER POSSIBLE.

RECOMMENDED HYGIENIC PRACTICES:

WASH HANDS AND ARMS WITH SOAP AND WATER PRIOR TO EATING, DRINKING, SMOKING OR USING THE LAVATORY.

SECTION IX - DISCLAIMERS

THE INFORMATION CONTAINED HEREIN IS BASED PRIMARILY ON DATA PROVIDED US BY OUR SUPPLIERS, AND WE BELIEVE IT TO BE CORRECT. HOWEVER, INDURON COATINGS, INC. MAKES NO WARRENTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. INDURON ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.



MATERIAL SAFETY DATA SHEET

INDURETHANE 6700 FLAT POLAR WHI

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PRODUCT NAME: INDURETHANE 6700 FLAT POLAR WHI
PRODUCT CODE: A8-1708

HMIS CODES: H F R P
2 3 0 H

SECTION I - MANUFACTURERS IDENTIFICATION

MANUFACTURER'S NAME: INDURON PROTECTIVE COATINGS, INC.
ADDRESS: 3333 RICHARD ARRINGTON Jr BLVD, N.
BIRMINGHAM, ALABAMA 35234

EMERGENCY PHONE: 1-800-424-9300 INFORMATION PHONE: (205) 324-9584
DATE PRINTED: 7/11/2012

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE		WEIGHT
		mm Hg @	TEMP	PERCENT
! TALC (HYDRATED MAGNESIUM SILICATE) TALC (NONASBESTIFORM) OSHA PEL=20 MPPCF, ACGIH TLV=2 MG/M3 (RESPIRABLE)	14807-96-6	N/A		15 - 20%
N-BUTYL ACETATE ACGIH TWA=150 PPM, OSHA PEL=150 PPM, ACGIH STEL=200 PPM	123-86-4	8.43	20 C	5 - 10%
! SILICA, AMORPHOUS ACGIH TLV=10 MG/M3 (TOTAL), OSHA PEL=20 MPPCF	7631-86-9	N/A		5 - 10%
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE NONE ESTABLISHED	108-65-6	3.7	20 C	< 5%
METHYL ISOAMYL KETONE ACGIH TLV/TWA = 50 PPM	110-12-3	4.5	20 C	< 5%
ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE NONE ESTABLISHED	112-07-2	<1	68 F	2.91
* XYLENE (MIXED ISOMERS) PEL/TWA=100PPM, TLV/TWA=100PPM, TLV/STEL=150PPM 75% DIMETHYLBENZENE CAS 1330-20-7 25% ETHYLBENZENE CAS 100-41-4		5.1	68 F	2.78
BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) SEBACATE	41556-26-7	NEG.		< 5%
2-(2HYDROXY-3,5-DI-TERT-AMYLPHENYL)BENZOTRIAZOL CIBA-GEIGY 0.1 MG/M3	25973-55-1	NEG.		< 5%

* INDICATES TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF 40 CFR 372.

! NOTE: PIGMENTS DO NOT NORMALLY POSE A DUST HAZARD IN COATINGS.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 258 F - 4046 F

DENSITY: 12.69391 lb/g1

VAPOR DENSITY: HEAVIER THAN AIR.

EVAPORATION RATE: SLOWER THAN DIETHYL ETHER.

COATING VOC (Water Excluded): 2.44 lb/g1, 293 g/l

SOLUBILITY IN WATER: VERY SLIGHTLY SOLUBLE.

APPEARANCE AND ODOR:

Opaque, Viscous liquid. Aromatic Hydrocarbon and Ketone solvent odors.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 80 F

METHOD USED: CC

FLAMMABLE LIMITS IN AIR BY VOLUME-LOWER: .9

UPPER: 13

EXTINGUISHING MEDIA:

CARBON DIOXIDE, FOAM, DRY CHEMICAL, WATER SPRAY.

SPECIAL FIREFIGHTING PROCEDURES:

USE SELF CONTAINED BREATHING APPARATUS. WATER SHOULD BE USED AS A FOG ONLY, TO KEEP CONTAINERS COOL IN ORDER TO MINIMIZE PRESSURE BUILDUP AND EXPLOSION.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

THIS MATERIAL IS FLAMMABLE AND MAY BE IGNITED BY HEAT, SPARKS, FLAME AND OTHER SOURCES OF IGNITION (E.G. STATIC ELECTRICITY, PILOT LIGHTS, MECHANICAL/ELECTRICAL EQUIPMENT). VAPORS MAY TRAVEL CONSIDERABLE DISTANCES TO A SOURCE OF IGNITION WHERE THEY MAY IGNITE, FLASHBACK OR EXPLODE. VAPORS ARE HEAVIER THAN AIR AND MAY ACCUMULATE IN LOW AREAS, WHERE THEY MAY REACH IGNITABLE CONCENTRATIONS THOUGH THE TEMPERATURE MAY REMAIN BELOW THE FLASH POINT. IF CONTAINER IS NOT PROPERLY COOLED, IT MAY EXPLODE IN THE HEAT OF A FIRE.

SECTION V - REACTIVITY DATA

STABILITY: STABLE UNDER NORMAL CONDITIONS OF STORAGE AND HANDLING.

CONDITIONS TO AVOID:

AVOID HEAT, SPARKS, FLAME AND OTHER POSSIBLE IGNITION SOURCES.

INCOMPATIBILITY (MATERIALS TO AVOID):

AVOID CONTACT WITH STRONG OXIDIZING AGENTS. MIXING WITH STRONG LEWIS OR MINERAL ACIDS AND STRONG MINERAL AND ORGANIC BASES, ESPECIALLY PRIMARY AND SECONDARY ALIPHATIC AMINES, CAN CAUSE GENERATION OF CONSIDERABLE HEAT.

HAZARDOUS DECOMPOSITION BYPRODUCTS:

CARBON MONOXIDE, ALDEHYDES AND ACIDS AND OTHER ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR.

SECTION VI - HEALTH HAZARD DATA

SKIN CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

CAN DRY AND DEFAT SKIN CAUSING CRACKS, IRRITATION AND DERMATITIS.

EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

CAN CAUSE SEVERE IRRITATION, TEARING, REDNESS AND BLURRED VISION.

SENSITIZATION:

NOT A SKIN SENSITIZER.

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

BREATHING HIGH CONCENTRATIONS OF AEROSOLS OF THIS MATERIAL MAY CAUSE IRRITATION OF THE NOSE, THROAT AND RESPIRATORY TRACT. MAY CAUSE EARLY MODERATE CENTRAL NERVOUS SYSTEM DEPRESSION AS EVIDENCED BY GIDDINESS, HEADACHE AND NAUSEA. IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR. FREQUENT INHALATION OF HIGH CONCENTRATIONS OF DRY DUST GENERATED BY SANDING, CUTTING, BLASTING OR GRINDING THIS MATERIAL OVER A LONG PERIOD OF TIME MAY CAUSE CANCER. RESPIRATORY SYMPTOMS ASSOCIATED WITH PRE-EXISTING LUNG DISORDERS (E.G., ASTHMA-LIKE CONDITIONS) MAY BE AGGRAVATED BY EXPOSURE TO DUST AND AEROSOLS OF THIS MATERIAL.

ORAL INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

CAN CAUSE GASTROINTESTINAL IRRITATION, VOMITING, NAUSEA, AND DIARRHEA.

EFFECTS OF OVEREXPOSURE:

INHALATION:

DIZZINESS, BREATHING DIFFICULTY, HEADACHES, LOSS OF COORDINATION.

EYE CONTACT:

SEVERE IRRITATION, TEARING, REDNESS, AND BLURRED VISION.

SKIN CONTACT:

CAN DRY AND DEFAT SKIN CAUSING CRACKS, IRRITATION AND DERMATITIS.

INGESTION:

CAN CAUSE GASTROINTESTINAL IRRITATION, VOMITING, NAUSEA, AND DIARRHEA.

CARCINOGENICITY: NTP?YES

IARC MONOGAPHS?YES

NOTE: DUST FROM THIS MATERIAL MAY CONTAIN CRYSTALLINE SILICA. PERSONS IN THE IMMEDIATE VICINITY OF SANDING, CUTTING, BLASTING AND GRINDING OPERATIONS ON THE DRY FILM SHOULD WEAR RESPIRATORY PROTECTION. REFER TO THE RESPIRATORY PROTECTION SECTION OF THIS DOCUMENT.



OSHA REGULATED?YES.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

ALLERGY, ECZEMA, ASTHMA, OTHER SKIN CONDITIONS.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT:

IRRIGATE WITH FLOWING WATER IMMEDIATELY AND CONTINUOUSLY FOR 15 MINUTES.
CONSULT MEDICAL PERSONNEL.

SKIN CONTACT:

IMMEDIATELY REMOVE CONTAMINATED CLOTHING. WASH CLOTHING BEFORE REUSE. WASH OFF WITH SOAP AND FLOWING WATER OR SHOWER. IF SKIN IRRITATION PERSISTS, SEE A PHYSICIAN.

INGESTION:

DO NOT INDUCE VOMITING. CALL A PHYSICIAN AND/OR TRANSPORT TO A MEDICAL FACILITY IMMEDIATELY.

INHALATION OVEREXPOSURE:

IF RESPIRATORY SYMPTOMS DEVELOP, MOVE VICTIM AWAY FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. IF VICTIM IS NOT BREATHING, IMMEDIATELY BEGIN ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULTIES DEVELOP, OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. GET IMMEDIATE MEDICAL ATTENTION.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

REMOVE ALL SOURCES OF IGNITION. PROVIDE EXPLOSION PROOF VENTILATION. DIKE SPILL AREA AND TAKE UP ON ABSORBENT MATERIAL. SHOVEL WITH NON-SPARKING TOOLS INTO CLOSABLE CONTAINER FOR DISPOSAL. WEAR PROTECTIVE EQUIPMENT SPECIFIED BELOW. THOROUGHLY FLUSH CONTAMINATED AREA WITH WATER.

WASTE DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPOR, MIST OR SPRAY. USE ONLY WITH GOOD VENTILATION. WASH AFTER HANDLING. STORE IN CLOSED CONTAINERS IN COOL, WELL VENTILATED AREA.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

ATMOSPHERIC CONCENTRATIONS SHOULD BE MAINTAINED BELOW THE THRESHOLD LIMIT GUIDELINES PROVIDED. WHEN THESE CONCENTRATIONS CANNOT BE MAINTAINED, RESPIRATORY PROTECTION IS REQUIRED. USE NIOSH/MSA APPROVED CHEMICAL/MECHANICAL



MATERIAL SAFETY DATA SHEET

INDURETHANE 6700 FLAT POLAR WHI

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FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE, GASEOUS AND VAPOR MATERIALS. IN CONFINED AREAS, USE A NIOSH/MSA APPROVED POSITIVE-PRESSURE, SELF-CONTAINED BREATHING APPARATUS. WEAR RESPIRATORY PROTECTION SUCH AS NIOSH/MSHA TC-21C-132 DUST/MIST RESPIRATOR WHEN SANDING, GRINDING, BLASTING OR CUTTING THE DRY FILM OF THIS MATERIAL.

VENTILATION:

WHERE POSSIBLE, PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE LEVELS BELOW THE THRESHOLD LIMIT VALUES.

SKIN PROTECTION:

FOR BRIEF CONTACT, NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING CLOTHING SHOULD BE NEEDED. USE IMPERVIOUS GLOVES WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT MIGHT OCCUR

EYE PROTECTION:

USE SPLASH PROOF CHEMICAL GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

OTHER RECOMMENDED PROTECTIVE MEASURES:

USE IMPERMEABLE CLOTHING, APRONS AND PROTECTIVE COVERING WHENEVER POSSIBLE TO PREVENT SKIN CONTACT. WEAR HEAD COVERING WHENEVER POSSIBLE.

RECOMMENDED HYGIENIC PRACTICES:

WASH HANDS AND ARMS WITH SOAP AND WATER PRIOR TO EATING, DRINKING, SMOKING OR USING THE LAVATORY.

SECTION IX - DISCLAIMERS

THE INFORMATION CONTAINED HEREIN IS BASED PRIMARILY ON DATA PROVIDED US BY OUR SUPPLIERS, AND WE BELIEVE IT TO BE CORRECT. HOWEVER, INDURON COATINGS, INC. MAKES NO WARRENTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. INDURON ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.



MATERIAL SAFETY DATA SHEET

INDURETHANE ACTIVATOR

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PRODUCT NAME: INDURETHANE ACTIVATOR
PRODUCT CODE: Q8-1212

HMIS CODES: H F R P
2 * 2 1 H

SECTION I - MANUFACTURERS IDENTIFICATION

MANUFACTURER'S NAME: INDURON PROTECTIVE COATINGS, INC.
ADDRESS: 3333 RICHARD ARRINGTON Jr BLVD, N.
BIRMINGHAM, ALABAMA 35234

EMERGENCY PHONE: 1-800-424-9300
DATE PRINTED: 10/16/2012

INFORMATION PHONE: (205) 324-9584

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
POLYMERIC ALIPHATIC ISOCYANATE NONE ESTABLISHED		N/A	<=100%
N-BUTYL ACETATE ACGIH TWA=150 PPM, OSHA PEL=150 PPM, ACGIH STEL=200 PPM	123-86-4	8.43 20 C	5 - 10%
HEXAMETHYLENE DIISOCYANATE ACGIH TWA=.005 PPM	822-06-0		< 5%

* INDICATES TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF 40 CFR 372.

! NOTE: PIGMENTS DO NOT NORMALLY POSE A DUST HAZARD IN COATINGS.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 258 F

DENSITY: 9.4 lb/gl

VAPOR DENSITY: HEAVIER THAN AIR.

EVAPORATION RATE: SLOWER THAN DIETHYL ETHER.

COATING VOC (Water Excluded): 0.94 lb/gl, 113 g/l

SOLUBILITY IN WATER: VERY SLIGHTLY SOLUBLE.

APPEARANCE AND ODOR:

Opaque, Viscous liquid. Aromatic Hydrocarbon and Ketone solvent odors.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 135F

METHOD USED:

FLAMMABLE LIMITS IN AIR BY VOLUME-LOWER: 1.7

UPPER: 7.6

EXTINGUISHING MEDIA:

CARBON DIOXIDE, FOAM, DRY CHEMICAL, WATER SPRAY.

SPECIAL FIREFIGHTING PROCEDURES:

USE SELF CONTAINED BREATHING APPARATUS. WATER SHOULD BE USED AS A FOG ONLY, TO KEEP CONTAINERS COOL IN ORDER TO MINIMIZE PRESSURE BUILDUP AND EXPLOSION.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

THIS MATERIAL IS FLAMMABLE AND MAY BE IGNITED BY HEAT, SPARKS, FLAME AND OTHER SOURCES OF IGNITION (E.G. STATIC ELECTRICITY, PILOT LIGHTS, MECHANICAL/ELECTRICAL EQUIPMENT). VAPORS MAY TRAVEL CONSIDERABLE DISTANCES TO A SOURCE OF IGNITION WHERE THEY MAY IGNITE, FLASHBACK OR EXPLODE. VAPORS ARE HEAVIER THAN AIR AND MAY ACCUMULATE IN LOW AREAS, WHERE THEY MAY REACH IGNITABLE CONCENTRATIONS THOUGH THE TEMPERATURE MAY REMAIN BELOW THE FLASH POINT. IF CONTAINER IS NOT PROPERLY COOLED, IT MAY EXPLODE IN THE HEAT OF A FIRE.

SECTION V - REACTIVITY DATA

STABILITY: STABLE UNDER NORMAL CONDITIONS OF STORAGE AND HANDLING.

CONDITIONS TO AVOID:

AVOID HEAT, SPARKS, FLAME AND OTHER POSSIBLE IGNITION SOURCES.

INCOMPATIBILITY (MATERIALS TO AVOID):

AVOID CONTACT WITH STRONG OXIDIZING AGENTS. MIXING WITH STRONG LEWIS OR MINERAL ACIDS AND STRONG MINERAL AND ORGANIC BASES, ESPECIALLY PRIMARY AND SECONDARY ALIPHATIC AMINES, CAN CAUSE GENERATION OF CONSIDERABLE HEAT.

HAZARDOUS DECOMPOSITION BYPRODUCTS:

CARBON MONOXIDE, ALDEHYDES AND ACIDS AND OTHER ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR.

SECTION VI - HEALTH HAZARD DATA

SKIN CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

CAN DRY AND DEFAT SKIN CAUSING CRACKS, IRRITATION AND DERMATITIS.

EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

CAN CAUSE SEVERE IRRITATION, TEARING, REDNESS AND BLURRED VISION.

SENSITIZATION:

POTENTIAL SKIN SENSITIZER.

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

EARLY MODERATE CENTRAL NERVOUS SYSTEM DEPRESSION AS EVIDENCED BY GIDDINESS, HEADACHE, DIZZINESS AND NAUSEA. IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR.

ORAL INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

CAN CAUSE GASTROINTESTINAL IRRITATION, VOMITING, NAUSEA, AND DIARRHEA.

EFFECTS OF OVEREXPOSURE:

INHALATION:

DIZZINESS, BREATHING DIFFICULTY, HEADACHES, LOSS OF COORDINATION.

EYE CONTACT:

SEVERE IRRITATION, TEARING, REDNESS, AND BLURRED VISION.

SKIN CONTACT:

CAN DRY AND DEFAT SKIN CAUSING CRACKS, IRRITATION AND DERMATITIS.

INGESTION:

CAN CAUSE GASTROINTESTINAL IRRITATION, VOMITING, NAUSEA, AND DIARRHEA.

CARCINOGENICITY: NTP?NO

IARC MONOGAPHS?NO.

OSHA REGULATED?YES.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

ALLERGY, ECZEMA, ASTHMA, OTHER SKIN CONDITIONS.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT:

IRRIGATE WITH FLOWING WATER IMMEDIATELY AND CONTINUOUSLY FOR 15 MINUTES. CONSULT MEDICAL PERSONNEL.

SKIN CONTACT:

IMMEDIATELY REMOVE CONTAMINATED CLOTHING. WASH CLOTHING BEFORE REUSE. WASH OFF WITH SOAP AND FLOWING WATER OR SHOWER. IF SKIN IRRITATION PERSISTS, SEE A PHYSICIAN.

INGESTION:

DO NOT INDUCE VOMITING. CALL A PHYSICIAN AND/OR TRANSPORT TO A MEDICAL FACILITY IMMEDIATELY.

INHALATION OVEREXPOSURE:

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE MOUTH-TO-MOUTH RESUSCITATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

REMOVE ALL SOURCES OF IGNITION. PROVIDE EXPLOSION PROOF VENTILATION. DIKE SPILL AREA AND TAKE UP ON ABSORBENT MATERIAL. SHOVEL WITH NON-SPARKING TOOLS INTO CLOSABLE CONTAINER FOR DISPOSAL. WEAR PROTECTIVE EQUIPMENT SPECIFIED BELOW. THOROUGHLY FLUSH CONTAMINATED AREA WITH WATER.

WASTE DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPOR, MIST OR SPRAY. USE ONLY WITH GOOD VENTILATION. WASH AFTER HANDLING. STORE IN CLOSED CONTAINERS IN COOL, WELL VENTILATED AREA.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

ATMOSPHERIC CONCENTRATIONS SHOULD BE MAINTAINED BELOW THE THRESHOLD LIMIT GUIDELINES PROVIDED. WHEN THESE CONCENTRATIONS CANNOT BE MAINTAINED, RESPIRATORY PROTECTION IS REQUIRED. USE NIOSH/MSA APPROVED CHEMICAL/MECHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICULATE, GASEOUS AND VAPOR MATERIALS. IN CONFINED AREAS, USE A NIOSH/MSA APPROVED POSITIVE-PRESSURE, SELF-CONTAINED BREATHING APPARATUS. WEAR RESPIRATORY PROTECTION SUCH AS NIOSH/MSHA TC-21C-132 DUST/MIST RESPIRATOR WHEN SANDING, GRINDING, BLASTING OR CUTTING THE DRY FILM OF THIS MATERIAL.

VENTILATION:

WHERE POSSIBLE, PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE LEVELS BELOW THE THRESHOLD LIMIT VALUES.

SKIN PROTECTION:

FOR BRIEF CONTACT, NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING CLOTHING SHOULD BE NEEDED. USE IMPERVIOUS GLOVES WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT MIGHT OCCUR

EYE PROTECTION:

USE SPLASH PROOF CHEMICAL GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

OTHER RECOMMENDED PROTECTIVE MEASURES:

USE IMPERMEABLE CLOTHING, APRONS AND PROTECTIVE COVERING WHENEVER POSSIBLE TO PREVENT SKIN CONTACT. WEAR HEAD COVERING WHENEVER POSSIBLE.

RECOMMENDED HYGIENIC PRACTICES:

WASH HANDS AND ARMS WITH SOAP AND WATER PRIOR TO EATING, DRINKING, SMOKING OR USING THE LAVATORY.



MATERIAL SAFETY DATA SHEET

INDURETHANE ACTIVATOR

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SECTION IX - DISCLAIMERS

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