



**MATERIAL SAFETY DATA SHEET**

CERAMASAFE 90 GRAY, PART A

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3/10/2010

PRODUCT NAME: CERAMASAFE 90 GRAY, PART A  
PRODUCT CODE: A-8168

HMIS CODES: H F R P

SECTION I - MANUFACTURERS IDENTIFICATION

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

EMERGENCY PHONE: (205) 324-9584  
DATE PRINTED: 3/10/2010

INFORMATION PHONE: (205) 324-9584  
NAME OF PREPARER: John Anspach

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE		WEIGHT
		mm Hg @	TEMP	PERCENT
DIGLYCIDYL ETHER OF BISPHENYL A NONE ESTABLISHED	25068-38-6	N/A	n/a	40 - 45%
! TITANIUM DIOXIDE TLV/TWA=10 MG/M3 TOTAL DUST OR 5 MG/M3 (NUISANCE DUST)	13463-67-7	N/A		25 - 30%
REACTIVE DILUENT NONE ESTABLISHED		.11	68 F	10 - 15%
! OXIDE GLASS ACGIH TLV NOT ESTABLISHED OSHA PEL 5 MG/M3 RESPIRABLE	65997-17-3	N/A		5 - 10%
CARBON (RESPIRABLE FRACTION <5% SIO2) TLV= 2.4 MG/M3 (RESPIRABLE CARBON)	N/A	N/A	N/A	< 5%
n-BUTYL ACETATE TLV/TWA 150 PPM TLV/STEL 200 PPM	123-86-4	8.4	68 F	< 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: 258F - 491F

DENSITY: 10.897 lb/g1

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**VAPOR DENSITY: HEAVIER THAN AIR.**

**EVAPORATION RATE: SLOWER THAN DIETHYL ETHER.**

**COATING VOC (Water Excluded): 0.28 lb/g1,34 g/1**

**SOLUBILITY IN WATER: INSOLUBLE.**

**APPEARANCE AND ODOR:**

Opaque, viscous liquid. Aromatic Hydrocarbon solvent odors.

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**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

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**FLASH POINT: 78 F**

**METHOD USED: TCC**

**FLAMMABLE LIMITS IN AIR BY VOLUME-LOWER: N/A**

**UPPER: N/A**

**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 WILL NOT SUSTAIN COMBUSTION UNLESS PREHEATED. IF CONTAINER IS NOT PROPERLY COOLED, IT MAY EXPLODE IN THE HEAT OF A FIRE.

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**SECTION V - REACTIVITY DATA**

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**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, STRONG LEWIS OR MINERAL ACIDS, AND STRONG MINERAL AND ORGANIC BASES, EXPECIALLY PRIMARY AND SECONDARY ALIPHATIC AMINES. REACTIONS WITH SOME CURING AGENTS MAY PRODUCE CONSIDERABLE HEAT. RUN-A-WAY REACTIONS MAY CHAR AND DECOMPOSE THE PRODUCT, GENERATING UNIDENTIFIED FUMES AND VAPORS WHICH MAY BE TOXIC.

**HAZARDOUS DECOMPOSITION BYPRODUCTS:**

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

**HAZARDOUS POLYMERIZATION:**

WILL NOT OCCUR.

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**SECTION VI - HEALTH HAZARD DATA**

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**SKIN CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

THIS PRODUCT MAY BE MODERATELY IRRITATING TO THE SKIN.

**EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

THIS MATERIAL MAY CAUSE EYE IRRITATION. DIRECT CONTACT WITH THE LIQUID, VAPORS OR AEROSOL MAY CAUSE STINGING, TEARING AND REDNESS.

**SENSITIZATION:**

POTENTIAL 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. DUST FROM THIS MATERIAL MAY CONTAIN TRACE AMOUNTS OF CRYSTALLINE SILICA. 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:**

WHILE THIS MATERIAL HAS A LOW DEGREE OF TOXICITY, INGESTION OF EXCESSIVE QUANTITIES MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT.

**EFFECTS OF OVEREXPOSURE:**

**INHALATION:**

DIZZINESS, BREATHING DIFFICULTY, HEADACHES, LOSS OF COORDINATION.

**EYE CONTACT:**

MODERATE IRRITATION, TEARING, REDNESS, AND BLURRED VISION.

**SKIN CONTACT:**

CAN CAUSE MODERATE IRRITATION AND DERMATITIS.

**INGESTION:**

MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT.

**CARCINOGENICITY: NTP?YES**

**IARC MONOGAPHS?YES**

NOTE: DUST FROM THIS MATERIAL MAY CONTAIN TRACE AMOUNTS OF 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 HOLDING

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EYELIDS OPEN. CONSULT MEDICAL PERSONNEL.

**SKIN CONTACT:**

IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND REMOVE EXCESS FROM SKIN. WASH OFF WITH SOAP AND FLOWING WATER OR SHOWER. WASH CLOTHING BEFORE REUSE. CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, CANNOT BE DECONTAMINATED AND SHOULD BE DISCARDED. IF SKIN IRRITATION OCCURS, 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.

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**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

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**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.

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**SECTION VIII - SPECIAL PROTECTION INFORMATION**

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**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:**

SKIN CONTACT SHOULD BE AVOIDED. USE IMPERVIOUS GLOVES AND LONG SLEEVED CLOTHING. USE APPROPRIATE BARRIER CREAMS ON EXPOSED SKIN.

**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.

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**SECTION IX - DISCLAIMERS**

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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**

CERAMASAFE 90 GRAY PART B

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PRODUCT NAME: CERAMASAFE 90 GRAY PART B  
PRODUCT CODE: Q-8168

HMIS CODES: H F R P

SECTION I - MANUFACTURERS IDENTIFICATION

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

EMERGENCY PHONE: (205) 324-9584  
DATE PRINTED: 3/10/2010

INFORMATION PHONE: (205) 324-9584  
NAME OF PREPARER: John Anspach

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP		WEIGHT PERCENT
! OXIDE GLASS ACGIH TLV NOT ESTABLISHED OSHA PEL 5 MG/M3 RESPIRABLE	65997-17-3	N/A		20 - 25%
CARBON (RESPIRABLE FRACTION <5% SiO2) TLV= 2.4 MG/M3 (RESPIRABLE CARBON)	N/A	N/A	N/A	20 - 25%
NONREACTIVE DILUENT NONE ESTABLISHED		N/A		20 - 25%
CYCLOALIPHATIC/ AROMATIC AMINE NONE ESTABLISHED		5.17	70 F	15 - 20%
n-BUTYL ACETATE TLV/TWA 150 PPM TLV/STEL 200 PPM	123-86-4	8.4	68 F	5 - 10%
SOLVENT NAPHTHA, LIGHT AROMATIC TLV/TWA=50PPM	64742-95-6	2.7	68 F	< 5%
2,4,6-TRI (DIMETHYLAMINOMETHYL) PHENOL NONE ESTABLISHED	90-72-2	N/A		< 5%
1-PROPANOL, 2-METHYL- PEL/TWA=50 PPM, TLV/TWA=50 PPM	78-83-1	8.8	20 F	< 5%
TnBt NONE ESTABLISHED	Proprietary	N/A		< 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.

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**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

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**BOILING RANGE:** 226 F - 572F                      **DENSITY:** 7.776 lb/gl

**VAPOR DENSITY:** HEAVIER THAN AIR.

**EVAPORATION RATE:** SLOWER THAN DIETHYL ETHER.

**COATING VOC (Water Excluded):** 1.08 lb/gl, 130 g/l

**SOLUBILITY IN WATER:** INSOLUBLE.

**APPEARANCE AND ODOR:**

Opaque, viscous liquid. Aromatic Hydrocarbon solvent odors.

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**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

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**FLASH POINT:** 78 F

**METHOD USED:** TCC

**FLAMMABLE LIMITS IN AIR BY VOLUME-LOWER:** N/A

**UPPER:** N/A

**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 WILL NOT SUSTAIN COMBUSTION UNLESS PREHEATED. IF CONTAINER IS NOT PROPERLY COOLED, IT MAY EXPLODE IN THE HEAT OF A FIRE.

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**SECTION V - REACTIVITY DATA**

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**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 OXYDIZING AGENTS. AVOID BRINGING INTO CONTACT WITH LOW MOLECULAR WEIGHT EPOXY RESINS UNDER UNCONTROLLED HIGH TEMPERATURE CONDITIONS.

**HAZARDOUS DECOMPOSITION BYPRODUCTS:**

IGNITION MAY YIELD CARBON MONOXIDE, CARBON DIOXIDE AND OXIDES OF NITROGEN.

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**HAZARDOUS POLYMERIZATION:**  
WILL NOT OCCUR.

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**SECTION VI - HEALTH HAZARD DATA**

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**SKIN CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

THIS MATERIAL MAY CAUSE SEVERE INJURY TO SKIN FOLLOWING PROLONGED OR REPEATED CONTACT AND MAY CAUSE SENSITATION OR OTHER ALLERGIC RESPONSES. A SINGLE PROLONGED EXPOSURE MAY RESULT IN MATERIAL BEING ABSORBED IN HARMFUL AMOUNTS.

**EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

CAN QUICKLY CAUSE SEVERE IRRITATION OR BURNS. MAY CAUSE PERMANENT VISUAL IMPAIRMENT, AND ULTIMATELY, BLINDNESS.

**SENSITIZATION:**

POTENTIAL 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. DUST FROM THIS MATERIAL MAY CONTAIN TRACE AMOUNTS OF CRYSTALLINE SILICA. 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:**

WHILE THIS MATERIAL HAS A LOW DEGREE OF TOXICITY, INGESTION COULD CAUSE GASTROINTESTINAL IRRITATION OR ULCERATION. INGESTION MAY CAUSE BURNS OF THE MOUTH AND THROAT.

**EFFECTS OF OVEREXPOSURE:**

**INHALATION:**

DIZZINESS, BREATHING DIFFICULTY, HEADACHES, LOSS OF COORDINATION.

**EYE CONTACT:**

SEVERE IRRITATION, TEARING, REDNESS, AND BLURRED VISION.

**SKIN CONTACT:**

CONTACT WITH SKIN QUICKLY CAUSES SEVERE IRRITATION AND PAIN AND MAY CAUSE BURNS.

**INGESTION:**

CAN CAUSE GASTROINTESTINAL IRRITATION ,BURNS OR ULCERATION.

**CARCINOGENICITY: NTP?YES**

**IARC MONOGAPHS?YES**

NOTE: DUST FROM THIS MATERIAL MAY CONTAIN TRACE AMOUNTS OF 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.



**MATERIAL SAFETY DATA SHEET**

CERAMASAFE 90 GRAY PART B

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**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 30 MINUTES.  
CONSULT MEDICAL PERSONNEL.

**SKIN CONTACT:**

IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND REMOVE EXCESS FROM SKIN. WASH OFF WITH SOAP AND FLOWING WATER OR SHOWER. WASH CLOTHING BEFORE REUSE. CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, CANNOT BE DECONTAMINATED AND SHOULD BE DISCARDED. IF SKIN IRRITATION OCCURS, SEE A PHYSICIAN.

**INGESTION:**

DO NOT INDUCE VOMITING. ADMINISTER LARGE AMOUNTS OF WATER OR MILK IF AVAILABLE. 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.

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**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

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**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.

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**SECTION VIII - SPECIAL PROTECTION INFORMATION**

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**RESPIRATORY PROTECTION:**

ATMOSPHERIC CONCENTRATIONS SHOULD BE MAINTAINED BELOW THE THRESHOLD LIMIT



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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:**

SKIN CONTACT SHOULD BE AVOIDED. USE IMPERVIOUS GLOVES AND LONG SLEEVED CLOTHING. USE APPROPRIATE BARRIER CREAMS ON EXPOSED SKIN.

**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.

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### **SECTION IX - DISCLAIMERS**

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**MATERIAL SAFETY DATA SHEET**

CERAMASAFE 90 BLACK, PART A

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PRODUCT NAME: CERAMASAFE 90 BLACK, PART A  
PRODUCT CODE: A-2868

HMIS CODES: H F R P  
2 1 1 E

SECTION I - MANUFACTURERS IDENTIFICATION

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

EMERGENCY PHONE: (205) 324-9584  
DATE PRINTED: 3/10/2010

INFORMATION PHONE: (205) 324-9584  
NAME OF PREPARER: John Anspach

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE		WEIGHT
		mm Hg @ TEMP		PERCENT
DIGLYCIDYL ETHER OF BISPHENYL A NONE ESTABLISHED	25068-38-6	N/A	n/a	50 - 60%
CARBON (RESPIRABLE FRACTION <5% SIO2) TLV= 2.4 MG/M3 (RESPIRABLE CARBON)	N/A	N/A	N/A	15 - 20%
REACTIVE DILUENT NONE ESTABLISHED		.11	68 F	15 - 20%
! OXIDE GLASS ACGIH TLV NOT ESTABLISHED OSHA PEL 5 MG/M3 RESPIRABLE	65997-17-3	N/A		5 - 10%
n-BUTYL ACETATE TLV/TWA 150 PPM TLV/STEL 200 PPM	123-86-4	8.4	68 F	< 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: 258F - 491F

DENSITY: 8.903 lb/g1

VAPOR DENSITY: HEAVIER THAN AIR.

EVAPORATION RATE: SLOWER THAN DIETHYL ETHER.



**MATERIAL SAFETY DATA SHEET**

CERAMASAFE 90 BLACK, PART A

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**COATING VOC (Water Excluded): 0.28 lb/g1,34 g/1**

**SOLUBILITY IN WATER: INSOLUBLE.**

**APPEARANCE AND ODOR:**

Opaque, viscous liquid. Aromatic Hydrocarbon solvent odors.

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**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

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**FLASH POINT: 78 F**

**METHOD USED: TCC**

**FLAMMABLE LIMITS IN AIR BY VOLUME-LOWER: N/A**

**UPPER: N/A**

**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 WILL NOT SUSTAIN COMBUSTION UNLESS PREHEATED. IF CONTAINER IS NOT PROPERLY COOLED, IT MAY EXPLODE IN THE HEAT OF A FIRE.

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**SECTION V - REACTIVITY DATA**

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**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, STRONG LEWIS OR MINERAL ACIDS, AND STRONG MINERAL AND ORGANIC BASES, ESPECIALLY PRIMARY AND SECONDARY ALIPHATIC AMINES. REACTIONS WITH SOME CURING AGENTS MAY PRODUCE CONSIDERABLE HEAT. RUN-A-WAY REACTIONS MAY CHAR AND DECOMPOSE THE PRODUCT, GENERATING UNIDENTIFIED FUMES AND VAPORS WHICH MAY BE TOXIC.

**HAZARDOUS DECOMPOSITION BYPRODUCTS:**

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

**HAZARDOUS POLYMERIZATION:**

WILL NOT OCCUR.

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**SECTION VI - HEALTH HAZARD DATA**

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**SKIN CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

THIS PRODUCT MAY BE MODERATELY IRRITATING TO THE SKIN.

**EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

THIS MATERIAL MAY CAUSE EYE IRRITATION. DIRECT CONTACT WITH THE LIQUID, VAPORS OR AEROSOL MAY CAUSE STINGING, TEARING AND REDNESS.

**SENSITIZATION:**

POTENTIAL 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. DUST FROM THIS MATERIAL MAY CONTAIN TRACE AMOUNTS OF CRYSTALLINE SILICA. 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:**

WHILE THIS MATERIAL HAS A LOW DEGREE OF TOXICITY, INGESTION OF EXCESSIVE QUANTITIES MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT.

**EFFECTS OF OVEREXPOSURE:**

**INHALATION:**

DIZZINESS, BREATHING DIFFICULTY, HEADACHES, LOSS OF COORDINATION.

**EYE CONTACT:**

MODERATE IRRITATION, TEARING, REDNESS, AND BLURRED VISION.

**SKIN CONTACT:**

CAN CAUSE MODERATE IRRITATION AND DERMATITIS.

**INGESTION:**

MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT.

**CARCINOGENICITY: NTP?YES**

**IARC MONOGAPHS?YES**

NOTE: DUST FROM THIS MATERIAL MAY CONTAIN TRACE AMOUNTS OF 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 HOLDING EYELIDS OPEN. CONSULT MEDICAL PERSONNEL.

**SKIN CONTACT:**

IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND REMOVE EXCESS FROM SKIN. WASH OFF WITH SOAP AND FLOWING WATER OR SHOWER. WASH CLOTHING BEFORE REUSE. CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, CANNOT BE DECONTAMINATED AND SHOULD BE DISCARDED. IF SKIN IRRITATION OCCURS, 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.

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**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.

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**SECTION VIII - SPECIAL PROTECTION INFORMATION**

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**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.



**MATERIAL SAFETY DATA SHEET**

CERAMASAFE 90 BLACK, PART A

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**SKIN PROTECTION:**

SKIN CONTACT SHOULD BE AVOIDED. USE IMPERVIOUS GLOVES AND LONG SLEEVED CLOTHING. USE APPROPRIATE BARRIER CREAMS ON EXPOSED SKIN.

**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.

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**SECTION IX - DISCLAIMERS**

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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**

CERAMASAFE 90 BLACK PART B

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PRODUCT NAME: CERAMASAFE 90 BLACK PART B  
PRODUCT CODE: Q-2868

HMIS CODES: H F R P  
2 1 1 G

SECTION I - MANUFACTURERS IDENTIFICATION

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

EMERGENCY PHONE: (205) 324-9584  
DATE PRINTED: 3/10/2010

INFORMATION PHONE: (205) 324-9584  
NAME OF PREPARER: John Anspach

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP		WEIGHT PERCENT
! OXIDE GLASS ACGIH TLV NOT ESTABLISHED OSHA PEL 5 MG/M3 RESPIRABLE	65997-17-3	N/A		20 - 25%
CARBON (RESPIRABLE FRACTION <5% SiO2) TLV= 2.4 MG/M3 (RESPIRABLE CARBON)	N/A	N/A	N/A	20 - 25%
NONREACTIVE DILUENT NONE ESTABLISHED		N/A		20 - 25%
CYCLOALIPHATIC/ AROMATIC AMINE NONE ESTABLISHED		5.17	70 F	15 - 20%
n-BUTYL ACETATE TLV/TWA 150 PPM TLV/STEL 200 PPM	123-86-4	8.4	68 F	5 - 10%
SOLVENT NAPHTHA, LIGHT AROMATIC TLV/TWA=50PPM	64742-95-6	2.7	68 F	< 5%
2,4,6-TRI (DIMETHYLAMINOMETHYL) PHENOL NONE ESTABLISHED	90-72-2	N/A		< 5%
1-PROPANOL, 2-METHYL- PEL/TWA=50 PPM, TLV/TWA=50 PPM	78-83-1	8.8	20 F	< 5%
TnBt NONE ESTABLISHED	Proprietary	N/A		< 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.

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**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

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**BOILING RANGE:** 226 F - 572F                      **DENSITY:** 7.776 lb/gl

**VAPOR DENSITY:** HEAVIER THAN AIR.

**EVAPORATION RATE:** SLOWER THAN DIETHYL ETHER.

**COATING VOC (Water Excluded):** 1.08 lb/gl, 130 g/l

**SOLUBILITY IN WATER:** INSOLUBLE.

**APPEARANCE AND ODOR:**

Opaque, viscous liquid. Aromatic Hydrocarbon solvent odors.

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**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

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**FLASH POINT:** 78 F

**METHOD USED:** TCC

**FLAMMABLE LIMITS IN AIR BY VOLUME-LOWER:** N/A

**UPPER:** N/A

**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 WILL NOT SUSTAIN COMBUSTION UNLESS PREHEATED. IF CONTAINER IS NOT PROPERLY COOLED, IT MAY EXPLODE IN THE HEAT OF A FIRE.

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**SECTION V - REACTIVITY DATA**

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**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 OXYDIZING AGENTS. AVOID BRINGING INTO CONTACT WITH LOW MOLECULAR WEIGHT EPOXY RESINS UNDER UNCONTROLLED HIGH TEMPERATURE CONDITIONS.

**HAZARDOUS DECOMPOSITION BYPRODUCTS:**

IGNITION MAY YIELD CARBON MONOXIDE, CARBON DIOXIDE AND OXIDES OF NITROGEN.

**HAZARDOUS POLYMERIZATION:**  
WILL NOT OCCUR.

**SECTION VI - HEALTH HAZARD DATA**

**SKIN CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

THIS MATERIAL MAY CAUSE SEVERE INJURY TO SKIN FOLLOWING PROLONGED OR REPEATED CONTACT AND MAY CAUSE SENSITATION OR OTHER ALLERGIC RESPONSES. A SINGLE PROLONGED EXPOSURE MAY RESULT IN MATERIAL BEING ABSORBED IN HARMFUL AMOUNTS.

**EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

CAN QUICKLY CAUSE SEVERE IRRITATION OR BURNS. MAY CAUSE PERMANENT VISUAL IMPAIRMENT, AND ULTIMATELY, BLINDNESS.

**SENSITIZATION:**

POTENTIAL 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. DUST FROM THIS MATERIAL MAY CONTAIN TRACE AMOUNTS OF CRYSTALLINE SILICA. 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:**

WHILE THIS MATERIAL HAS A LOW DEGREE OF TOXICITY, INGESTION COULD CAUSE GASTROINTESTINAL IRRITATION OR ULCERATION. INGESTION MAY CAUSE BURNS OF THE MOUTH AND THROAT.

**EFFECTS OF OVEREXPOSURE:**

**INHALATION:**

DIZZINESS, BREATHING DIFFICULTY, HEADACHES, LOSS OF COORDINATION.

**EYE CONTACT:**

SEVERE IRRITATION, TEARING, REDNESS, AND BLURRED VISION.

**SKIN CONTACT:**

CONTACT WITH SKIN QUICKLY CAUSES SEVERE IRRITATION AND PAIN AND MAY CAUSE BURNS.

**INGESTION:**

CAN CAUSE GASTROINTESTINAL IRRITATION ,BURNS OR ULCERATION.

**CARCINOGENICITY: NTP?YES**

**IARC MONOGAPHS?YES**

NOTE: DUST FROM THIS MATERIAL MAY CONTAIN TRACE AMOUNTS OF 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.



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**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 30 MINUTES.  
CONSULT MEDICAL PERSONNEL.

**SKIN CONTACT:**

IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND REMOVE EXCESS FROM SKIN. WASH OFF WITH SOAP AND FLOWING WATER OR SHOWER. WASH CLOTHING BEFORE REUSE. CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, CANNOT BE DECONTAMINATED AND SHOULD BE DISCARDED. IF SKIN IRRITATION OCCURS, SEE A PHYSICIAN.

**INGESTION:**

DO NOT INDUCE VOMITING. ADMINISTER LARGE AMOUNTS OF WATER OR MILK IF AVAILABLE. 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.

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**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.

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**SECTION VIII - SPECIAL PROTECTION INFORMATION**

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**RESPIRATORY PROTECTION:**

ATMOSPHERIC CONCENTRATIONS SHOULD BE MAINTAINED BELOW THE THRESHOLD LIMIT



**MATERIAL SAFETY DATA SHEET**

CERAMASAFE 90 BLACK PART B

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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:**

SKIN CONTACT SHOULD BE AVOIDED. USE IMPERVIOUS GLOVES AND LONG SLEEVED CLOTHING. USE APPROPRIATE BARRIER CREAMS ON EXPOSED SKIN.

**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.

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**SECTION IX - DISCLAIMERS**

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