



MATERIAL SAFETY DATA SHEET

INDURAZINC DF67

PRODUCT NAME: INDURAZINC DF67
PRODUCT CODE: H4-7910

HMIS CODES: H F R P
2 1 1 I

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
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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
* XYLENE (MIXED ISOMERS) PEL/TWA=100PPM, TLV/TWA=100PPM, TLV/STEL=150PPM	1330-20-7	5.1	68 F	40
* AROMATIC ISOCYANATE NONE ESTABLISHED	101-68-8	0.0001	77 F	35
! MICROCRYSTALLINE SILICA 98.5-99.0% PEL-TLV/TWA=0.1 MG/M3 (RESPIRABLE DUST)	14808-60-7	N/A		10.30
! IRON OXIDE HYDRATE TLV=5 MG/M3 RESPIRABLE (NUISANCE DUST), 15 MG/M3 TOTAL DUST	51274-00-1	N/A	N/A	< 5%
! SILICON DIOXIDE, AMORPHOUS OSHA PEL=5 MG/M3 RESPIRABLE DUST, 15 MG/M3 TOTAL DUST	112945-52-5	N/A		< 5%
XYLENE (MIXED ISOMERS) PEL/TWA=100PPM, TLV/TWA=100PPM, TLV/STEL=150PPM	1330-20-7	5.1	68 F	< 5%
VM&P NAPHTHA TLV/TWA=300 PPM, TLV/STEL=400 PPM	8032-32-4	5.2	20 C	< 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.

Warning: Detectable amounts of chemicals known to the State of California to cause cancer and/or birth defects or reproductive harm may be present in this product.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 250-300 F - 694 F **DENSITY:** 9.177 lb/gl

VAPOR DENSITY: HEAVIER THAN AIR.

EVAPORATION RATE: SLOWER THAN DIETHYL ETHER.

COATING VOC (Water Excluded): 3.73 lb/gl, 447 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: 54 F

METHOD USED: TCC

FLAMMABLE LIMITS IN AIR BY VOLUME-LOWER: .9

UPPER: 6.6

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:
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. DUST FROM THIS MATERIAL MAY CONTAIN 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:
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



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.