



**MATERIAL SAFETY DATA SHEET**

INDURAGUARD 9200, GRAY

Page: 1  
4/30/2010

PRODUCT NAME: INDURAGUARD 9200, GRAY  
PRODUCT CODE: G-8100

HMIS CODES: H F R P  
2 2 0 B

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: 4/30/2010

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
* *! METALLIC ZINC	7440-66-6	N/A	26
COMPONENT	CAS#	CONCENTRATION	EXPOSURE LIMITS
ZINC	7440-66-6	96.25	TLV=5 MG/M3
LEAD	7439-92-1	.00002	TLV=0.05 MG/M3
ZINC OXIDE	1314-13-2	3.00	TLV=5 MG/M3
! HEMATITE MICACIOUS IRON OXIDE		N/A	5 - 10%
TLV=10 MG/M3 (NUISANCE DUST)			
! BARIUM SULFATE	7727-43-7	N/A	5 - 10%
ACGIH TLV/TWA=10 MG/M3 (TOTAL DUST), OSHA PEL/TWA= 5MG/M3 (RESPIRABLE DUST)			
! TITANIUM DIOXIDE	13463-67-7	N/A	5 - 10%
TLV/TWA=10 MG/M3 TOTAL DUST OR 5 MG/M3 (NUISANCE DUST)			
* ! COARSE SILICA EXTENDER		N/A	4.22
COMPONENT	CAS #	CONC.	EXPOSURE LIMIT
CRYSTALLINE SILICA	14808-60-7	<5%	ACGIH TLV=0.1 MG/M3 RESPIRABLE DUST
2 MG/M3 RESPIRABLE DUST BASED ON 5% MAXIMUM QUARTZ CONTENT.			
* ALUMINUM FLAKE	7429-90-5	N/A	3
ACGIH TLV/TWA=10 MG/M3, OSHA PEL 15 MG/M3			
MINERAL SPIRITS	8052-41-3	3.1	68 F
TLV/TWA=100PPM			
CARBON (RESPIRABLE FRACTION <5% SIO2)	N/A	N/A	N/A
TLV= 2.4 MG/M3 (RESPIRABLE CARBON)			
* * XYLENE (MIXED ISOMERS)	1330-20-7	5.1	68 F
PEL/TWA=100PPM, TLV/TWA=100PPM, TLV/STEL=150PPM			
METHYL ETHYL KETONE OXIME	96-29-7	2	20 C
AIHA WEEL/TWA=10 PPM			.07



\* 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:** 279 F - 1665 DEG.F      **DENSITY:** 15.073 lb/g1

**VAPOR DENSITY:** HEAVIER THAN AIR.

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

**COATING VOC (Water Excluded):** 0.55 lb/g1, 66 g/1

**SOLUBILITY IN WATER:** INSOLUBLE.

**APPEARANCE AND ODOR:**

Opaque, viscous liquid. Aliphatic Hydrocarbon solvent odor.

---

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

---

**FLASH POINT:** 101 F

**METHOD USED:** CC

**FLAMMABLE LIMITS IN AIR BY VOLUME-LOWER:** .7

**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 COMBUSTIBLE 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, AND 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. PAINT SOAKED RAGS AND DRY OVERSPRAY MAY IGNITE SPONTANEOUSLY. KEEP USED RAGS, ACCUMULATED DRY OVERSPRAY AND FILTERS MOIST WITH WATER DURING STORAGE PRIOR TO FINAL DISPOSAL.

---

**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.

**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.

---

**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.