

SECTION 1

PRODUCT IDENTIFIER 2000.00560 221B9988 DEVTAR 5A BASE
 CK B ASE

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PRODUCT USE PROTECTIVE COATING

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MSDS PREPARED BY: PRODUCT SAFETY AND TOXICOLOGY DEPARTMENT
 ICI PAINTS NORTH AMERICA

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	WT. %:
CHEMICAL NAME CASTOR OIL DERIVATIVE	1-5
COMMON NAME : RHEOLOGICAL ADDITIVE	
CAS NUMBER: CONFIDENTIAL	
CHEMICAL NAME BENZENE, ETHYL-	1-5
COMMON NAME : ETHYLBENZENE	
CAS NUMBER: 100-41-4	
CHEMICAL NAME ANTIGORITE	1-5
COMMON NAME : ANTIGORITE	
CAS NUMBER: 12135-86-3	
CHEMICAL NAME BENZENE, DIMETHYL-	10-20
COMMON NAME : XYLENE	
CAS NUMBER: 1330-20-7	
CHEMICAL NAME CARBON BLACK	1-5
COMMON NAME : CARBON BLACK	
CAS NUMBER: 1333-86-4	
CHEMICAL NAME TREMOLITE, NONASBESTIFORM	1-5
COMMON NAME : TREMOLITE	
CAS NUMBER: 14567-73-8	
CHEMICAL NAME TALC	1-5
COMMON NAME : TALC	
CAS NUMBER: 14807-96-6	
CHEMICAL NAME ANTHOPHYLLITE, NONASBESTIFORM	1-1.0
COMMON NAME : ANTHOPHYLLITE	
CAS NUMBER: 17068-78-9	
CHEMICAL NAME OXIRANE, 2,2'-((1-METHYLETHYLIDENE) BIS(4,1-PHENYLENEOXYMETHYLENE)) BIS, HOMOPOLYMER	20-30
COMMON NAME : EPOXY RESIN	
CAS NUMBER: 25085-99-8	
CHEMICAL NAME NAPHTHA (PETROLEUM), LIGHT STEAM-CRACKED AROM. POLYMER WITH LIGHT STM-CRKD AROM PETROLEUM NAPHTHA PIPERYLENE CONC MEDIUM STM-CRKD AROM PETRO NAP	40-50
COMMON NAME : HYDROCARBON RESIN	
CAS NUMBER: 68527-25-3	
CHEMICAL NAME SULFURIC ACID, BARIUM SALT	5-10
COMMON NAME : BARIUM SULFATE	
CAS NUMBER: 7727-43-7	

SECTION 3: HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF EXPOSURE

INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION.

EFFECTS OF OVEREXPOSURE

INHALATION PROLONGED INHALATION MAY LEAD TO FATIGUE, DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, DIARRHEA, BLURRED VISION, COUGHING, DIFFICULTY WITH SPEECH, CENTRAL NERVOUS SYSTEM DEPRESSION, INTOXICATION, TIGHTNESS OF CHEST, METALLIC TASTE,

ANESTHETIC EFFECT OR NARCOSIS, DIFFICULTY OF BREATHING, ALLERGIC RESPONSE, FEVER AND CHILLS, DEHYDRATION, TREMORS, LIVER DAMAGE, KIDNEY DAMAGE, PNEUMOCONIOSIS, LOSS OF CONSCIOUSNESS, RESPIRATORY FAILURE, ASPHYXIATION, DEATH.

SKIN CONTACT IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS, DEFATTING, BLISTERING, ALLERGIC RESPONSE. POSSIBLE SENSITIZATION TO SKIN.

EYE CONTACT IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE CONJUNCTIVITIS, BLURRED VISION, TEARING OF EYES, REDNESS OF EYES, SEVERE EYE IRRITATION.

INGESTION INGESTION MAY CAUSE LUNG INFLAMMATION AND DAMAGE DUE TO ASPIRATION OF MATERIAL INTO LUNGS, MOUTH AND THROAT IRRITATION, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, CENTRAL NERVOUS SYSTEM DEPRESSION, LIVER DAMAGE, KIDNEY DAMAGE, PULMONARY EDEMA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE EYE, SKIN, RESPIRATORY DISORDERS, ASTHMA-LIKE CONDITIONS, KIDNEY DISORDERS.

SECTION 4: FIRST-AID MEASURES

INHALATION REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED BREATHING. GET EMERGENCY MEDICAL ATTENTION. HAVE TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL HELP FOR ANY BREATHING DIFFICULTY. REMOVE TO FRESH AIR IF INHALATION CAUSES EYE WATERING, HEADACHES, DIZZINESS, OR OTHER DISCOMFORT.

SKIN CONTACT WASH THOROUGHLY WITH SOAP AND WATER. IF ANY PRODUCT REMAINS, GENTLY RUB PETROLEUM JELLY, VEGETABLE OR MINERAL/BABY OIL ONTO SKIN. REPEATED APPLICATIONS MAY BE NEEDED. REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE RE-USE. DISPOSE OF CONTAMINATED LEATHER ITEMS, SUCH AS SHOES AND BELTS.

EYE CONTACT FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, ESPECIALLY UNDER LIDS FOR AT LEAST 15 MINUTES. IF IRRITATION OR OTHER EFFECTS PERSIST, OBTAIN MEDICAL TREATMENT.

INGESTION IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT (SETA) 80 F./ 27 C. LOWER EXPLOSIVE LIMIT 1.0 (%)
UPPER EXPLOSIVE LIMIT 7.0 (%)

FIRE EXTINGUISHING MEDIA DRY CHEMICAL OR FOAM
WATER FOG.
CARBON DIOXIDE.

UNUSUAL FIRE AND EXPLOSION HAZARDS CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR FIRE.
VAPORS MAY IGNITE EXPLOSIVELY AT AMBIENT TEMPERATURES.
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL LONG DISTANCES TO A SOURCE OF IGNITION AND FLASH BACK.
VAPORS CAN FORM EXPLOSIVE MIXTURES IN AIR AT ELEVATED TEMPERATURES.
MAY DECOMPOSE UNDER FIRE CONDITIONS EMITTING IRRITANT AND/OR TOXIC GASES.

FIRE FIGHTING PROCEDURES WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS.
FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND SELF-CONTAINED BREATHING APPARATUS.
SELF-CONTAINED BREATHING APPARATUS RECOMMENDED.

HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS CARBON MONOXIDE, CARBON DIOXIDE, ACRID FUMES, OXIDES OF

SULFUR, ALDEHYDES, TOXIC GASES, BARIUM COMPOUNDS.
PHENOLICS.

SECTION 6 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS.

ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA.

VENTILATE AREA WITH EXPLOSION-PROOF EQUIPMENT. SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIALS. USE NON-SPARKING TOOLS. EVACUATE ALL UNNECESSARY PERSONNEL. PLACE COLLECTED MATERIAL IN PROPER CONTAINER.

COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP.

LARGE SPILLS - SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. USE ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE MATERIAL AND RINSE WATER OUT OF SEWERS AND WATER COURSES. SMALL SPILLS - USE ABSORBENT TO PICK UP RESIDUE AND DISPOSE OF PROPERLY.

SECTION 7 HANDLING AND STORAGE

HANDLING AND STORAGE

STORE BELOW 80F. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME.

OTHER PRECAUTIONS USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING.

KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE.

AVOID CONDITIONS WHICH RESULT IN FORMATION OF INHALABLE PARTICLES SUCH AS SPRAYING OR ABRADING (SANDING) PAINTED SURFACES. IF SUCH CONDITIONS CANNOT BE AVOIDED, USE APPROPRIATE RESPIRATORY PROTECTION AS DIRECTED UNDER EXPOSURE CONTROLS/PERSONAL PROTECTION.

EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES.

GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION OF STATIC CHARGE.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

COMMON NAME : ETHYLBENZENE

CAS NUMBER: 100-41-4

ACGIH (TWA): 100 PPM OSHA (TWA): 100 PPM

ACGIH (STEL): 125 PPM

COMMON NAME : XYLENE

CAS NUMBER: 1330-20-7

ACGIH (TWA): 100 PPM OSHA (TWA): 100 PPM

ACGIH (STEL): 150 PPM

COMMON NAME : CARBON BLACK

CAS NUMBER: 1333-86-4

ACGIH (TWA): 3.5 MG/M3 OSHA (TWA): 3.5 MG/M3

COMMON NAME : TALC

CAS NUMBER: 14807-96-6

ACGIH (TWA): 2 MG/M3

COMMON NAME : BARIUM SULFATE

CAS NUMBER: 7727-43-7

ACGIH (TWA): 10 MG/M3 OSHA (TWA): 5 MG/M3

RESPIRATORY PROTECTION

CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE EXPOSURE STANDARDS WHEN USING THIS MATERIAL. WHEN RESPIRATORY PROTECTION IS DETERMINED TO BE NECESSARY, USE A NIOSH/MSHA (CANADIAN Z94.4) APPROVED ELASTOMERIC SEALING-SURFACE FACEPIECE RESPIRATOR OUTFITTED WITH ORGANIC VAPOR CARTRIDGES AND PAINT SPRAY (DUST/MIST) PREFILTERS.

DETERMINE THE PROPER LEVEL OF PROTECTION BY CONDUCTING APPROPRIATE AIR MONITORING. CONSULT 29CFR1910.134 FOR SELECTION OF RESPIRATORS (CANADIAN Z94.4).

VENTILATION PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT BUILD-UP OF VAPORS.

USE EXPLOSION-PROOF EQUIPMENT. USE NON-SPARKING EQUIPMENT.

PERSONAL PROTECTIVE EQUIPMENT
EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES.
IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING, APRON, BOOTS.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE:	NOT AVAILABLE	SPECIFIC GRAVITY:	1.203
BOILING RANGE (F/C):	280-280/138-138	WEIGHT PER GALLON:	10.02/ 12.03IMP
%VOLATILE BY VOLUME:	24.98		
PHYSICAL STATE:	LIQUID	APPEARANCE	BLACK
SOLUBILITY IN WATER:	NOT AVAILABLE	PH:	NOT AVAILABLE

SECTION 10: STABILITY AND REACTIVITY

UNDER NORMAL CONDITIONS
STABLE
SEE SECTION 5 FIRE FIGHTING MEASURES

MATERIALS TO AVOID
OXIDIZERS, ACIDS, BASES, AMINES, NITRIC ACID, COMBUSTIBLE MATERIALS.
NITRATES.

CONDITIONS TO AVOID
ELEVATED TEMPERATURES, CONTACT WITH OXIDIZING AGENT, SPARKS, OPEN FLAME, IGNITION SOURCES.

HAZARDOUS POLYMERIZATION
WILL NOT OCCUR
MAY POLYMERIZE IN PRESENCE OF ALIPHATIC AMINES.

SECTION 11: TOXICOLOGICAL INFORMATION

COMMON NAME :	RHEOLOGICAL ADDITIVE			
CAS NUMBER:	CONFIDENTIAL			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
COMMON NAME :	ETHYLBENZENE			
CAS NUMBER:	100-41-4			
CARCINOGENICITY LISTED BY:	NTP NO	IARC YES 2B	OSHA NO	ACGIH YES A3
LD50:	3500.00 MG/KG	ORL RAT		
LD50:	2272.00 MG/KG	IPR MOU		
LD50:	17.80 GM/KG	SKN RBT		
COMMON NAME :	ANTIGORITE			
CAS NUMBER:	12135-86-3			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
COMMON NAME :	XYLENE			
CAS NUMBER:	1330-20-7			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
LD50:	>1700.00 MG/KG	SKN RBT		
LD50:	4300.00 MG/KG	ORL RAT		
LC50:	5000.00 PPM/4HR	IHL RAT		
COMMON NAME :	CARBON BLACK			
CAS NUMBER:	1333-86-4			
CARCINOGENICITY LISTED BY:	NTP NO	IARC YES 2B	OSHA NO	ACGIH NO
LD50:	> 10.00 GM/KG	ORL RAT		
COMMON NAME :	TREMOLITE			
CAS NUMBER:	14567-73-8			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
COMMON NAME :	TALC			
CAS NUMBER:	14807-96-6			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH YES A4
COMMON NAME :	ANTHOPHYLLITE			
CAS NUMBER:	17068-78-9			

CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
COMMON NAME :	EPOXY RESIN			
CAS NUMBER:	25085-99-8			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
LD50:	6000.00 MG/KG	SKN RBT		
LD50:	>2400.00 MG/KG	ORL RAT		
COMMON NAME :	HYDROCARBON RESIN			
CAS NUMBER:	68527-25-3			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
COMMON NAME :	BARIUM SULFATE			
CAS NUMBER:	7727-43-7			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO

SUPPLEMENTAL HEALTH INFORMATION

CONTAINS A CHEMICAL THAT IS MODERATELY TOXIC BY INGESTION. CONTAINS A CHEMICAL THAT MAY BE ABSORBED THROUGH SKIN. NOTICE - REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE TOXICITY TO LIVER, KIDNEY, LUNGS, CENTRAL NERVOUS SYSTEM, BLOOD.

CARCINOGENICITY

INHALATION OF NON-ASBESTIFORM COSMETIC GRADE TALC FOR 2 YEARS AT 6 AND 18 MG/M3 PRODUCED CLEAR EVIDENCE OF CARCINOGENICITY IN FEMALE RATS (LUNG AND ADRENAL TUMORS) AND SOME EVIDENCE OF CARCINOGENICITY IN MALE RATS (ADRENAL TUMORS). NO EVIDENCE OF CARCINOGENICITY WAS DEMONSTRATED IN MALE AND FEMALE MICE EXPOSED UNDER THE SAME CONDITIONS. MICROSCOPIC EXAMINATION OF THE LUNGS OF RATS AND MICE EXPOSED TO TALC REVEALED ADDITIONAL EXPOSURE RELATED EFFECTS PRIMARILY ASSOCIATED WITH THE INFLAMMATORY RESPONSE.

THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED CARBON BLACK AS POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B) BASED ON SUFFICIENT EVIDENCE IN ANIMALS AND INADEQUATE EVIDENCE IN HUMANS.

THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS EVALUATED ETHYLBENZENE AND CLASSIFIED IT AS A POSSIBLE HUMAN CARCINOGEN (GROUP 2B) BASED ON SUFFICIENT EVIDENCE FOR CARCINOGENICITY IN EXPERIMENTAL ANIMALS, BUT INADEQUATE EVIDENCE FOR CANCER IN EXPOSED HUMANS.

IN A 2 YEAR INHALATION STUDY CONDUCTED BY THE NATIONAL TOXICOLOGY PROGRAM (NTP), ETHYLBENZENE VAPOR AT 750 PPM PRODUCED KIDNEY AND TESTICULAR TUMORS IN RATS AND LUNG AND LIVER TUMORS IN MICE. GENETIC TOXICITY STUDIES SHOWED NO GENOTOXIC EFFECTS. THE RELEVANCE OF THESE RESULTS TO HUMANS IS NOT KNOWN.

REPRODUCTIVE EFFECTS

HIGH EXPOSURES TO XYLENE IN SOME ANIMAL STUDIES, OFTEN AT MATERNALLY TOXIC LEVELS, HAVE AFFECTED EMBRYO/FETAL DEVELOPMENT. THE SIGNIFICANCE OF THIS FINDING TO HUMANS IS NOT KNOWN.

MUTAGENICITY

NO MUTAGENIC EFFECTS ARE ANTICIPATED

TERATOGENICITY

NO TERATOGENIC EFFECTS ARE ANTICIPATED

SECTION 12: ECOLOGICAL INFORMATION

NO ECOLOGICAL TESTING HAS BEEN DONE BY ICI PAINTS ON THIS PRODUCT AS A WHOLE.

SECTION 13: DISPOSAL CONSIDERATIONS**WASTE DISPOSAL**

DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. AVOID DISCHARGE TO NATURAL WATERS.

SECTION 14: TRANSPORT INFORMATION

DOT UN1263, PAINT, 3, PGIII
 IMDG UN1263, PAINT, CLASS 3, PGIII, LTD QTY (IMDG 3.4.7)
 UN1263, PAINT, CLASS 3, PGIII
 IATA UN1263, PAINT, 3, PGIII
 TDG NOT AVAILABLE

SECTION 15: REGULATORY INFORMATION

		SARA	SARA	CERCLA	HAZ	AIR	MARINE
		302	313	302.4	POLLUTANT	POLTNT	
CAS NUMBER:	100-41-4	NO	YES	YES	YES	NO	
COMMON NAME :	ETHYLBENZENE						
CAS NUMBER:	1330-20-7	NO	YES	YES	YES	NO	
COMMON NAME :	XYLENE						

AS OF THE DATE OF THIS MSDS, ALL OF THE COMPONENTS IN THIS PRODUCT ARE LISTED (OR ARE OTHERWISE EXEMPT FROM LISTING) ON THE TSCA INVENTORY.

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR (CONTROLLED PRODUCTS REGULATIONS) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

SECTION 16: OTHER INFORMATION

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE AT THE TIME OF PREPARATION OF THIS DATA SHEET AND WHICH ICI PAINTS BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA. ICI PAINTS SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS INFORMATION, OR OF ANY PRODUCT, METHOD OR APPARATUS MENTIONED AND YOU MUST MAKE YOUR OWN DETERMINATION OF ITS SUITABILITY AND COMPLETENESS FOR YOUR OWN USE, FOR THE PROTECTION OF THE ENVIRONMENT, AND THE HEALTH AND SAFETY OF YOUR EMPLOYEES AND USERS OF THIS MATERIAL.

COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29CFR1910.1200.