

(11072)

4308-9990H

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SECTION 1

PRODUCT IDENTIFIER 4308-9990H DEVGUARD 4308H BLACK  
 DATE OF PREPARATION NOVEMBER 6, 2012  
 PRODUCT USE PROTECTIVE COATING  
 MANUFACTURED BY: AKZO NOBEL PAINTS LLC, 15885 WEST SPRAGUE ROAD,  
 STRONGSVILLE, OHIO 44136, U.S.A  
 AKZO NOBEL CANADA INC., 8200 KEELE STREET,  
 CONCORD, ONTARIO L4K 2A5, CANADA.

EMERGENCY AND MSDS TELEPHONE NUMBER:  
 1-800-545-2643

MSDS PREPARED BY: PRODUCT SAFETY AND COMPLIANCE DEPARTMENT  
 AKZO NOBEL PAINTS LLC

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT

	WT. %:
CHEMICAL NAME LONG OIL ALKYD RESIN	30-40
COMMON NAME : LONG OIL ALKYD RESIN	
CAS NUMBER: CONFIDENTIAL	
CHEMICAL NAME MEDIUM OIL ALKYD RESIN	10-20
COMMON NAME : MEDIUM OIL ALKYD RESIN	
CAS NUMBER: CONFIDENTIAL	
CHEMICAL NAME RHEOLOGICAL ADDITIVE	1-5
COMMON NAME : RHEOLOGICAL ADDITIVE	
CAS NUMBER: CONFIDENTIAL	
CHEMICAL NAME BENZENE, ETHYL-	.1-1.0
COMMON NAME : ETHYLBENZENE	
CAS NUMBER: 100-41-4	
CHEMICAL NAME 2-HEPTANONE	1-5
COMMON NAME : METHYL AMYL KETONE	
CAS NUMBER: 110-43-0	
CHEMICAL NAME BENZENE, DIMETHYL-	.1-1.0
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 HEXANOIC ACID, 2-ETHYL-, ZIRCONIUM SALT	1-5
COMMON NAME : ZIRCONIUM CARBOXYLATE	
CAS NUMBER: 22464-99-9	
CHEMICAL NAME NEODECANOIC ACID, COBALT SALT	.1-1.0
COMMON NAME : COBALT NEODECANOATE	
CAS NUMBER: 27253-31-2	
CHEMICAL NAME ACETIC ACID, 1,1-DIMETHYLETHYL ESTER	10-20
COMMON NAME : TERT-BUTYL ACETATE	
CAS NUMBER: 540-88-5	
CHEMICAL NAME SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC	10-20
COMMON NAME : MEDIUM ALIPHATIC SOLVENT NAPHTHA	
CAS NUMBER: 64742-88-7	
CHEMICAL NAME STODDARD SOLVENT	10-20
COMMON NAME : MINERAL SPIRITS	
CAS NUMBER: 8052-41-3	
CHEMICAL NAME BENZENE, 1-CHLORO-4-(TRIFLUOROMETHYL)	1-5
COMMON NAME : PARACHLOROBENZOTRIFLUORIDE	
CAS NUMBER: 98-56-6	

**APPROVED MATERIAL**

JAN 27 2014

MSDS # 11072

APPROVED BY [Signature]

SECTION 3: HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF EXPOSURE

INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION.

EFFECTS OF OVEREXPOSURE

INHALATION PROLONGED INHALATION MAY LEAD TO LOSS OF APPETITE, MUCOUS MEMBRANE IRRITATION, DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, CENTRAL NERVOUS SYSTEM DEPRESSION, INTOXICATION, ANESTHETIC EFFECT OR NARCOSIS, DIFFICULTY OF BREATHING, ALLERGIC RESPONSE, BLOOD ABNORMALITIES, BRONCHITIS, SEVERE LUNG IRRITATION OR DAMAGE, LIVER DAMAGE, KIDNEY DAMAGE, CONVULSIONS, PNEUMOCONIOSIS, LOSS OF CONSCIOUSNESS, ASPHYXIATION. POSSIBLE SENSITIZATION TO RESPIRATORY TRACT.

SKIN CONTACT IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS, DEFATTING. SKIN CONTACT MAY RESULT IN DERMAL ABSORPTION OF COMPONENT(S) OF THIS PRODUCT WHICH MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION.

EYE CONTACT IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE CONJUNCTIVITIS, REDNESS OF EYES.

INGESTION INGESTION MAY CAUSE LUNG INFLAMMATION AND DAMAGE DUE TO ASPIRATION OF MATERIAL INTO LUNGS, MOUTH AND THROAT IRRITATION, MUCOUS MEMBRANE IRRITATION, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, DIARRHEA, ABDOMINAL PAIN, CENTRAL NERVOUS SYSTEM DEPRESSION, ANESTHETIC EFFECT OR NARCOSIS, DIFFICULTY OF BREATHING, BLOOD ABNORMALITIES, LIVER DAMAGE, KIDNEY DAMAGE, CONVULSIONS, LOSS OF CONSCIOUSNESS.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

EYE, SKIN, RESPIRATORY DISORDERS, ASTHMA-LIKE CONDITIONS, KIDNEY DISORDERS, LIVER DISORDERS, NERVOUS SYSTEM 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.

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)	68 F./ 20 C.	LOWER EXPLOSIVE LIMIT	.7	(%)
		UPPER EXPLOSIVE LIMIT	8.9	(%)

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.  
CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR  
FIRE.  
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.

**HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS**

CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, OXIDES  
OF SULFUR, TOXIC GASES.  
HALOGENATED COMPOUNDS.

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

SECTION 6 ACCIDENTAL RELEASE MEASURES  
COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL  
REGULATIONS.

ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA.  
VENTILATE AREA WITH EXPLOSION-PROOF EQUIPMENT. 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.  
KEEP AWAY FROM DIRECT SUNLIGHT, HEAT AND ALL SOURCES OF  
IGNITION.

**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): 20 PPM OSHA (TWA): 100 PPM  
ACGIH (STEL): 125 PPM

COMMON NAME : METHYL AMYL KETONE  
CAS NUMBER: 110-43-0  
ACGIH(TWA): 50 PPM OSHA(TWA): 100 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 MG/M3 OSHA(TWA): 3.5 MG/M3  
COMMON NAME : ZIRCONIUM CARBOXYLATE  
CAS NUMBER: 22464-99-9  
ACGIH(TWA): 5 MG/M3 OSHA(TWA): 5 MG/M3  
ACGIH(STEL): 10 MG/M3  
COMMON NAME : TERT-BUTYL ACETATE  
CAS NUMBER: 540-88-5  
ACGIH(TWA): 200 PPM OSHA(TWA): 200 PPM  
COMMON NAME : MEDIUM ALIPHATIC SOLVENT NAPHTHA  
CAS NUMBER: 64742-88-7  
ACGIH(TWA): 100 PPM OSHA(TWA): 500 X PPM  
COMMON NAME : MINERAL SPIRITS  
CAS NUMBER: 8052-41-3  
ACGIH(TWA): 100 PPM OSHA(TWA): 500 PPM

X AS PETROLEUM-DISTILLATES

#### RESPIRATORY PROTECTION

THE SUPPLIER OF PARACHLOROBENZOTRIFLUORIDE (PCBTF) HAS ESTABLISHED AN OCCUPATIONAL EXPOSURE LIMIT FOR PCBTF OF 25 PPM AS AN 8-HOUR TWA. WHEN AIRBORNE CONCENTRATIONS OF PCBTF ARE UNKNOWN OR EXCEED ESTABLISHED GUIDELINES, RESPIRATORY PROTECTION IS REQUIRED. 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, FACE SHIELD, APRON.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE: NOT AVAILABLE SPECIFIC GRAVITY: .964  
BOILING RANGE (F/C): 208-417/ 98-214 WEIGHT PER GALLON: 8.03/ 9.64IMP  
%VOLATILE BY VOLUME: 53.67  
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, REDUCING AGENTS, BASES, METAL SALTS,  
COMBUSTIBLE MATERIALS.  
NITRATES.

## CONDITIONS TO AVOID

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

## HAZARDOUS POLYMERIZATION

WILL NOT OCCUR

## 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: 15.35 GM/KG SKN RBT

LC50: 17.20 MG/L/4 HR IHL RAT

COMMON NAME : METHYL AMYL KETONE

CAS NUMBER: 110-43-0

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50: 12.60 ML/KG SKN RBT

LD50: 1670.00 MG/KG ORL RAT

COMMON NAME : XYLENE

CAS NUMBER: 1330-20-7

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50:&gt;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 YES A3

LD50:&gt; 8.00 GM/KG ORL RAT

COMMON NAME : ZIRCONIUM CARBOXYLATE

CAS NUMBER: 22464-99-9

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME : COBALT NEODECANOATE

CAS NUMBER: 27253-31-2

CARCINOGENICITY LISTED BY: NTP NO IARC YES 2B OSHA NO ACGIH NO

COMMON NAME : TERT-BUTYL ACETATE

CAS NUMBER: 540-88-5

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50: 4100.00 MG/KG ORL RAT

LD50:&gt; 2.00 GM/KG SKN RBT

LC50:&gt;2230.00 MG/M3/4HR IHL RAT

COMMON NAME : MEDIUM ALIPHATIC SOLVENT NAPHTHA

CAS NUMBER: 64742-88-7

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50: 28.00 GM/KG SKN RBT

LD50: 28.00 GM/KG ORL RAT

COMMON NAME : MINERAL SPIRITS

CAS NUMBER: 8052-41-3

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50:> 3.00 GM/KG SKN RBT  
 LD50:> 5.00 GM/KG ORL RAT  
 COMMON NAME : PARACHLOROBENZOTRIFLUORIDE  
 CAS NUMBER: 98-56-6  
 CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO  
 LD50:> 6.80 GM/KG ORL RAT  
 LD50:> 2.70 GM/KG SKN RBT  
 LC50: 4479.00 PPM IHL RAT

## SUPPLEMENTAL HEALTH INFORMATION

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.

A 28-DAY INHALATION STUDY WAS CONDUCTED WITH PCBTF AT DOSE LEVELS OF 100, 250, 500, AND 1000 PPM IN RATS FOR 6 HR/DAY, 5 DAYS/WEEK. CLINICAL SIGNS INCLUDED INCREASED ACTIVITY AT 250 PPM AND ABOVE. HEPATOCYTE HYPERTROPHY WAS OBSERVED IN ALL ANIMALS AT DOSE LEVELS OF 500 AND 1000 PPM AND SOME ANIMALS AT LOWER LEVELS. KIDNEY/BODY WEIGHT RATIOS WERE SIGNIFICANTLY INCREASED IN MALE AND FEMALE RATS. MALE KIDNEY CHANGES WERE ATTRIBUTED TO ALPHA-2U-GLOBULIN AND THEREFORE NOT RELEVANT TO HUMANS.

GAVAGE STUDIES OF PCBTF IN LABORATORY RODENTS FOR TREATMENT PERIODS OF 14, 28, AND 90 DAYS HAVE DEMONSTRATED SIGNIFICANT LIVER AND KIDNEY TOXICITY AT DOSE LEVELS OF 400-1000 MG/KG/DAY. EVIDENCE OF TARGET ORGAN TOXICITY INCLUDED SIGNIFICANT INCREASES IN RELATIVE LIVER AND KIDNEY WEIGHTS, CLINICAL CHEMISTRY VALUES AND HISTOPATHOLOGICAL FINDINGS. RENAL TOXICITY WHICH OCCURRED ONLY IN MALE RATS, WAS ATTRIBUTED TO HYALINE DROPLET NEPHROPATHY AND IS HIGHLY UNLIKELY TO DEVELOP IN HUMANS. THE NOEL'S FOR ALL THESE STUDIES RANGE FROM 10 TO 100 MG/KG/DAY.

A 90 DAY RAT INHALATION TOXICITY AND NEUROBEHAVIORAL STUDY WAS CONDUCTED USING EXPOSURES OF 0-250 PPM FOR 6 HRS/DAY, 5 DAYS/WEEK. NO PCBTF-RELATED MACROSCOPIC OBSERVATIONS. PCBTF-RELATED CENTRILOBULAR HYPERTROPHY WAS PRESENT IN THE LIVERS OF MALES AND FEMALES AT THE HIGHEST DOSE AFTER 13 WEEKS. NO CENTRILOBULAR HYPERTROPHY WAS OBSERVED AT ANY LEVEL AMONG RECOVERY ANIMALS. THERE WERE NO PCBTF-RELATED EFFECTS ON THE NERVOUS SYSTEM AS MEASURED BY A FUNCTIONAL OBSERVATION BATTERY, MUSCULAR ACTIVITY MEASUREMENTS AND NEUROPATHOLOGY. A NOEL OF 50 PPM WAS ESTABLISHED IN THIS STUDY FOR LIVER HEPATOCYTE HYPERTROPHY IN MALE AND FEMALE RATS. IF THE HEPATOCYTE HYPERTROPHY OBSERVED IS CONSIDERED TO BE AN ADAPTIVE RESPONSE TO PCBTF, THE NOEL FOR THIS STUDY IS 250 PPM.

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

CARCINOGENICITY STODDARD SOLVENT IIC HAS BEEN SHOWN TO CAUSE KIDNEY TUMORS IN MALE RATS IN A NATIONAL TOXICOLOGY PROGRAM (NTP) STUDY. THESE TUMORS WERE ASSOCIATED WITH A SPECIFIC PROTEIN, ALPHA-2U-MICROGLOBULIN. BECAUSE HUMANS DO NOT PRODUCE THIS PROTEIN STODDARD SOLVENT IIC HAS NOT BEEN CLASSIFIED AS A HUMAN CARCINOGEN.

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.

THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED COBALT AND CERTAIN COBALT COMPOUNDS AS POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B). INJECTION OF METALLIC COBALT, COBALT ALLOYS, AND CERTAIN COBALT COMPOUNDS HAS RESULTED IN THE DEVELOPMENT OF LOCALIZED TUMORS IN LABORATORY ANIMALS.

CONTAINS METHYL ETHYL KETOXIME (MEKO). IN A LIFETIME, INHALATION STUDY, LIVER CARCINOMAS WERE OBSERVED IN RODENTS EXPOSED TO MEKO. THE RELEVANCE TO HUMANS IS UNKNOWN.

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

CONTAINS PARACHLOROBENZOTRIFLUORIDE (PCBTF). THE AMES TEST WAS NEGATIVE WITH AND WITHOUT S9 METABOLIC ACTIVATION. PCBTF INDUCED SISTER-CHROMATID-EXCHANGES (SCES) IN MOUSE LYMPHOMA CELLS WITH AND WITHOUT S9 METABOLIC ACTIVATION AT DOSES FROM 2.5 TO 40 MICROGRAMS PER MILLILITER. IN THE MOUSE LYMPHOMA ASSAY WHICH DID NOT INCORPORATE METABOLIC ACTIVATION, A DOSE-RESPONSE EFFECT WAS OBSERVED.

TERATOGENICITY

NO TERATOGENIC EFFECTS ARE ANTICIPATED

SECTION 12: ECOLOGICAL INFORMATION

NO ECOLOGICAL TESTING HAS BEEN DONE BY AKZO NOBEL PAINTS LLC 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, PGII

IMDG

NOT AVAILABLE

IATA

NOT AVAILABLE

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
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COMMON NAME : ETHYLBENZENE

CAS NUMBER:	1330-20-7	NO	YES	YES	YES	NO
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COMMON NAME : XYLENE

CAS NUMBER: 27253-31-2 NO YES NO YES NO  
COMMON NAME : COBAL'T NEODECANOATE  
CAS NUMBER: 540-88-5 NO NO YES NO NO  
COMMON NAME : TERT-BUTYL ACETATE

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 AKZO NOBEL PAINTS LLC BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA. AKZO NOBEL PAINTS LLC 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.