SECTION 1

PRODUCT IDENTIFIER ZY8105 KLENKS TUB & TILE ALMOND
DATE OF PREPARATION DECEMBER 30, 1999
PRODUCT USE PROTECTIVE COATING

MANUFACTURED BY: ICI PAINTS NORTH AMERICA, 925 EUCLID AVENUE, CLEVELAND , OHIO 44115, U.S.A.
ICI PAINTS (CANADA), 8200 KEELE STREET, CONCORD, ONTARIO L4K 2A5, CANADA.

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

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

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

	INGREDIENT	WT.%:
CHEMICAL NAME	2-PENTANONE, 4-METHYL-	5-10
COMMON NAME :	METHYL ISOBUTYL KETONE	
CAS NUMBER:	108-10-1	
CHEMICAL NAME	2-PROPANOL, 1-METHOXY-, ACETATE	5-10
COMMON NAME :	PROPYLENE GLYCOL MONOMETHYL ETHER	
CAS NUMBER:	108-65-6	
CHEMICAL NAME	BENZENE, DIMETHYL-	1-5
COMMON NAME :	XYLENE	
CAS NUMBER:	1330-20-7	
CHEMICAL NAME	TITANIUM OXIDE	30-40
COMMON NAME :	TITANIUM DIOXIDE	
CAS NUMBER:	13463-67-7	
CHEMICAL NAME	QUARTZ	1-5
COMMON NAME :	QUARTZ	
CAS NUMBER	14808-60-7	
CHEMICAL NAME	ALUMINUM HYDROXIDE	1-5
COMMON NAME :	ALUMINUM HYDROXIDE	
CAS NUMBER:	21645-51-2	
CHEMICAL NAME	PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH 2,2'-((1-METHYLETHYLIDENE)BIS (4,1-PHENYLENEOXYMETHYLENE))BIS(OXIRANE)	20-30
COMMON NAME :	EPOXY RESIN	
CAS NUMBER:	25036-25-3	
CHEMICAL NAME	FORMALDEHYDE	.01-.1
COMMON NAME :	FORMALDEHYDE	
CAS NUMBER:	50-00-0	
CHEMICAL NAME	1-BUTANOL, 2-METHYL-, ACETATE	1-5
COMMON NAME	2-METHYLBUTYL ETHANOATE	
CAS NUMBER:	624-41-9	
CHEMICAL NAME	ACETIC ACID, PENTYL ESTER	1-5
COMMON NAME :	N-AMYL ACETATE	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS NUMBER. 628-63-7

CHEMICAL NAME SILICA 1-5
COMMON NAME : AMORPHOUS SILICA
CAS NUMBER. 7631-86-9

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, FATIGUE, DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, CHEST PAIN, BLURRED VISION, COUGHING, DIFFICULTY WITH SPEECH, CENTRAL NERVOUS SYSTEM DEPRESSION, ANESTHETIC EFFECT OR NARCOSIS, DIFFICULTY OF BREATHING, TREMORS, LIVER DAMAGE, KIDNEY DAMAGE, PULMONARY EDEMA, LOSS OF CONSCIOUSNESS, CYANOSIS, RESPIRATORY FAILURE, ASPHYXIATION, DEATH.

SKIN CONTACT IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS, DEFATTING, BLISTERING. SKIN CONTACT MAY RESULT IN DERMAL ABSORPTION OF COMPONENT(S) OF THIS PRODUCT WHICH MAY CAUSE DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS.

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

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

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
EYE, SKIN, RESPIRATORY DISORDERS
KIDNEY DISORDERS
LIVER 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.

SECTION 4: FIRST-AID MEASURES

SKIN CONTACT FLUSH FROM SKIN WITH WATER. THEN WASH THOROUGHLY WITH SOAP AND WATER. 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) 60 F./ 16 C. **LOWER EXPLOSIVE LIMIT** 1.4 (%)
UPPER EXPLOSIVE LIMIT 11.2 (%)

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.
SELF CONTAINED BREATHING APPARATUS RECOMMENDED.

HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS
CARBON MONOXIDE, CARBON DIOXIDE, ACRID FUMES, OXYGEN.

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

SECTION 6 ACCIDENTAL RELEASE MEASURES

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 :	METHYL ISOBUTYL KETONE		
CAS NUMBER.	108-10-1		
ACGIH(TWA):	50 PPM	OSHA(TWA):	100 PPM
ACGIH(STEL).	75 PPM		
COMMON NAME :	XYLENE		
CAS NUMBER:	1330-20-7		
ACGIH(TWA)	100 PPM	OSHA(TWA).	100 PPM
ACGIH(STEL)	150 PPM		
COMMON NAME :	TITANIUM DIOXIDE		
CAS NUMBER	13463-67 7		
ACGIH(TWA)	10 MG/M3	OSHA(TWA)	10 MG/M3
COMMON NAME :	QUARTZ		
CAS NUMBER:	14808-60 7		
ACGIH(TWA)	0.1 MG/M3	OSHA(TWA):	0.1 MG/M3
COMMON NAME :	ALUMINUM HYDROXIDE		
CAS NUMBER:	21645-51 2		
ACGIH(TWA)	10 MG/M3	OSHA(TWA)	5 MG/M3
COMMON NAME	FORMALDEHYDE		
CAS NUMBER:	50-00-0		
		OSHA(TWA):	0.75 PPM
ACGIH(STEL):	C 0.3 PPM	OSHA(STEL)	2 PPM
COMMON NAME .	N-AMYL ACETATE		
CAS NUMBER:	628-63-7		
ACGIH(TWA)	100 PPM	OSHA(TWA):	100 PPM
COMMON NAME .	AMORPHOUS SILICA		

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS NUMBER 7631-86-9
ACGIH(TWA): 10 MG/M3 OSHA(TWA): 6 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE:	NOT AVAILABLE	SPECIFIC GRAVITY:	1.530
BOILING RANGE:	244-295F/118-146C	WEIGHT PER GALLON:	12.74/ 15.30IMP
%VOLATILE BY VOLUME:	42.52		
PHYSICAL STATE:	LIQUID	APPEARANCE	TAN
SOLUBILITY IN WATER:	N/A	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, ALDEHYDES, AMINES, NITRIC ACID.
NITRATES.
CHLORINATED RUBBER

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 : METHYL ISOBUTYL KETONE
CAS NUMBER: 108-10-1
CARCINOGENICITY LISTED BY NTP NO IARC NO OSHA NO ACGIH NO
LD50: > 20.00 GM/KG SKN RBT
LD50: 2080.00 MG/KG ORL RAT

COMMON NAME : PROPYLENE GLYCOL MONOMETHYL ETHER
CAS NUMBER: 108-65-6
CARCINOGENICITY LISTED BY NTP NO IARC NO OSHA NO ACGIH NO
LD50: > 5.00 GM/KG SKN RBT
LD50: 8532.00 MG/KG ORL RAT
LC50: 4345.00 PPM IHL RAT

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 TITANIUM DIOXIDE
CAS NUMBER: 13463-67-7
CARCINOGENICITY LISTED BY NTP NO IARC NO OSHA NO ACGIH NO
LD50: 24.00 GM/KG ORL RAT
LC50: 6820.00 MG/M3/4HR IHL RAT

COMMON NAME : QUARTZ
CAS NUMBER: 14808-60-7
CARCINOGENICITY LISTED BY NTP YES IARC YES 1 OSHA NO ACGIH NO

COMMON NAME ALUMINUM HYDROXIDE
CAS NUMBER: 21645-51-2
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME : EPOXY RESIN
CAS NUMBER: 25036-25-3
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO
LD50: >2000.00 MG/KG SKN RBT
LD50: >2000.00 MG/KG ORL RAT

COMMON NAME FORMALDEHYDE
CAS NUMBER: 50-00-0
CARCINOGENICITY LISTED BY NTP YES B IARC YES 2A OSHA YES ACGIH YES A2
LD50: 100.00 MG/KG ORL RAT
LC50: 203.00 MG/M3 IHL PIG

COMMON NAME 2-METHYLBUTYL ETHANOATE
CAS NUMBER: 624-41-9
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME : N-AMYL ACETATE
CAS NUMBER: 628-63-7
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO
LD50: > 17.50 GM/KG SKN RBT
LD50: 7.40 GM/KG ORL RBT

COMMON NAME AMORPHOUS SILICA
CAS NUMBER: 7631-86-9
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

SECTION 11: TOXICOLOGICAL INFORMATION

SUPPLEMENTAL HEALTH INFORMATION

CONTAINS A CHEMICAL THAT IS READILY ABSORBED THROUGH SKIN.
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, CENTRAL NERVOUS SYSTEM.

CARCINOGENICITY

CONTAINS FORMALDEHYDE, A POTENTIAL CANCER HAZARD. RATS EXPOSED TO FORMALDEHYDE VIA INHALATION DEVELOPED CANCER OF THE NASAL CAVITY. EVIDENCE IN HUMANS IS LIMITED (NASAL AND NASOPHARYNGEAL CANCER). FORMALDEHYDE IS LISTED AS A CARCINOGEN BY OSHA, PROBABLE HUMAN CARCINOGEN (GROUP 2A) BY IARC, AND ANTICIPATED HUMAN CARCINOGEN BY NTP. OVEREXPOSURE CAN CAUSE EYE, SKIN, AND RESPIRATORY TRACT IRRITATION, AND SKIN AND RESPIRATORY SENSITIZATION.
CONTAINS CRYSTALLINE SILICA WHICH IS CONSIDERED A HAZARD BY INHALATION. IARC HAS CLASSIFIED CRYSTALLINE SILICA AS CARCINOGENIC TO HUMANS (GROUP 1). CRYSTALLINE SILICA IS ALSO A KNOWN CAUSE OF SILICOSIS, A NONCANCEROUS LUNG DISEASE. NTP HAS CLASSIFIED CRYSTALLINE SILICA A REASONABLY ANTICIPATED CARCINOGEN.

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

PAINT, 3, UN1263, PGII, LTD. QTY.

IMDG

PAINT,CLASS 3.2,UN1263,PGII,LIMITED QUANTITY

SECTION 14: TRANSPORT INFORMATION

IATA NOT AVAILABLE

TDG NOT AVAILABLE

SECTION 15: REGULATORY INFORMATION

		SARA 302	SARA 313	CERCLA 302.4	HAZ AIR POLLUTANT	MARINE POLTNT
CAS NUMBER:	108-10-1	NO	YES	YES	YES	NO
COMMON NAME :	METHYL ISOBUTYL KETONE					
CAS NUMBER:	1330-20-7	NO	YES	YES	YES	NO
COMMON NAME :	XYLENE					
CAS NUMBER:	50-00-0	YES	YES	YES	YES	NO
COMMON NAME :	FORMALDEHYDE					
CAS NUMBER:	628-63-7	NO	NO	YES	NO	NO
COMMON NAME :	N-AMYL 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 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.