SECTION 1

PRODUCT IDENTIFIER ZY2810 KLENKS AQUATECH GRAY
DATE OF PREPARATION DECEMBER 30, 1999
PRODUCT USE PROTECTIVE COATING

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

	INGREDIENT	WT.%:
CHEMICAL NAME	POLYETHYLENE POLYAMINE ADDUCT	10-20
COMMON NAME :	ALIPHATIC AMINE	
CAS NUMBER	CONFIDENTIAL	
CHEMICAL NAME	1,2-ETHANEDIOL	1-5
COMMON NAME :	ETHYLENE GLYCOL	
CAS NUMBER:	107-21-1	
CHEMICAL NAME	CARBON BLACK	.1-1.0
COMMON NAME :	CARBON BLACK	
CAS NUMBER:	1333-86-4	
CHEMICAL NAME	TITANIUM OXIDE	30-40
COMMON NAME :	TITANIUM DIOXIDE	
CAS NUMBER:	13463-67-7	
CHEMICAL NAME	TALC	.1-1.0
COMMON NAME	TALC	
CAS NUMBER.	14807-96-6	
CHEMICAL NAME	ALUMINUM HYDROXIDE	1-5
COMMON NAME :	ALUMINUM HYDROXIDE	
CAS NUMBER:	21645-51-2	
CHEMICAL NAME	ETHANOL, 2-PROPOXY-	5-10
COMMON NAME :	ETHYLENE GLYCOL MONOPROPYL ETHER	
CAS NUMBER:	2807-30-9	
CHEMICAL NAME	SILICA	1-5
COMMON NAME :	AMORPHOUS SILICA	
CAS NUMBER:	7631-86-9	
CHEMICAL NAME	WATER	30-40
COMMON NAME :	WATER	
CAS NUMBER	7732-18-5	

SECTION 3: HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF EXPOSURE
INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION.

EFFECTS OF OVEREXPOSURE

INHALATION PROLONGED INHALATION MAY LEAD TO MUCOUS MEMBRANE IRRITATION, DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, NAUSEA, COUGHING, CENTRAL NERVOUS SYSTEM DEPRESSION, BLOOD ABNORMALITIES, KIDNEY DAMAGE. POSSIBLE SENSITIZATION TO RESPIRATORY TRACT.

SKIN CONTACT IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS, DEFATTING. POSSIBLE SENSITIZATION TO SKIN. SKIN CONTACT MAY RESULT IN DERMAL ABSORPTION OF COMPONENT(S) OF THIS PRODUCT WHICH MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION, BLOOD ABNORMALITIES, LIVER DAMAGE, KIDNEY DAMAGE.

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

INGESTION INGESTION MAY CAUSE LUNG INFLAMMATION AND DAMAGE DUE TO ASPIRATION OF MATERIAL INTO LUNGS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, VOMITING, GASTRO-INTESTINAL DISTURBANCES, SEVERE ABDOMINAL PAIN, APATHY, CENTRAL NERVOUS SYSTEM DEPRESSION, RESPIRATORY PROBLEMS, INTOXICATION, BLOOD ABNORMALITIES, KIDNEY DAMAGE, PULMONARY EDEMA, LOSS OF CONSCIOUSNESS, ACUTE POISONING, RESPIRATORY FAILURE, CARDIAC FAILURE, BRAIN DAMAGE.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
EYE, SKIN, RESPIRATORY DISORDERS
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 FLUSH FROM SKIN WITH WATER. THEN WASH THOROUGHLY WITH SOAP AND WATER. 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) 130 F./ 54 C. LOWER EXPLOSIVE LIMIT 1.2 (%)
UPPER EXPLOSIVE LIMIT 15.8 (%)

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 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, PEROXIDES, ALDEHYDES, ACIDS, UNIDENTIFIED ORGANIC COMPOUNDS.

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. 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 100F (38C). KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. KEEP FROM FREEZING.
KEEP AWAY FROM DIRECT SUNLIGHT, HEAT AND ALL SOURCES OF IGNITION.

SECTION 7 HANDLING AND STORAGE

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.
EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES.
GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION OF STATIC CHARGE.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

COMMON NAME : ETHYLENE GLYCOL
CAS NUMBER: 107-21-1
ACGIH(STEL): C 100 MG/M3

COMMON NAME : CARBON BLACK
CAS NUMBER: 1333-86-4
ACGIH(TWA): 3.5 MG/M3 OSHA(TWA): 3.5 MG/M3

COMMON NAME : TITANIUM DIOXIDE
CAS NUMBER: 13463-67-7
ACGIH(TWA): 10 MG/M3 OSHA(TWA): 10 MG/M3

COMMON NAME : TALC
CAS NUMBER 14807-96-6
ACGIH(TWA): 2 MG/M3

COMMON NAME : ALUMINUM HYDROXIDE
CAS NUMBER. 21645-51-2
ACGIH(TWA) 10 MG/M3 OSHA(TWA): 5 MG/M3

COMMON NAME : AMORPHOUS SILICA
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.

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE:	NOT AVAILABLE	SPECIFIC GRAVITY:	1.504
BOILING RANGE:	212-212F/ -100C	WEIGHT PER GALLON:	12.53/ 15.05IMP
XVOLATILE BY VOLUME:	65.03		
PHYSICAL STATE:	LIQUID	APPEARANCE	GREY
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, AMINES, MINERAL ACIDS.
CHLORINATED RUBBER

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

HAZARDOUS POLYMERIZATION
WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

COMMON NAME : ALIPHATIC AMINE
CAS NUMBER: CONFIDENTIAL
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME : ETHYLENE GLYCOL
CAS NUMBER: 107-21-1
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO
LD50: 4700.00 MG/KG ORL RAT
LD50: 5500.00 MG/KG ORL MOU

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 : 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 : TALC
CAS NUMBER: 14807-96-6
CARCINOGENICITY LISTED BY: NTP NO IARC NO 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 : ETHYLENE GLYCOL MONOPROPYL ETHER
CAS NUMBER 2807-30-9
CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

SECTION 11: TOXICOLOGICAL INFORMATION

LD50: 3089.00 MG/KG ORL RAT
LD50: 960.00 MG/KG SKN RBT
LC50: 1530.00 PPM IHL MOU

COMMON NAME - AMORPHOUS SILICA
CAS NUMBER: 7631-86-9
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 IS TOXIC BY INHALATION.
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 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.

REPRODUCTIVE EFFECTS

NO REPRODUCTIVE EFFECTS ARE ANTICIPATED

MUTAGENICITY

NO MUTAGENIC EFFECTS ARE ANTICIPATED

TERATOGENICITY

SOME LABORATORY TEST RESULTS HAVE SHOWN ETHYLENE GLYCOL TO BE AN ANIMAL TERATOGEN.

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
IMDG	NOT AVAILABLE
IATA	NOT AVAILABLE
TDG	NOT AVAILABLE

SECTION 15: REGULATORY INFORMATION

		SARA 302	SARA 313	CERCLA 302.4	HAZ AIR POLLUTANT	MARINE POLTNT
CAS NUMBER:	107-21-1	NO	YES	YES	YES	NO
COMMON NAME :	ETHYLENE GLYCOL					
CAS NUMBER:	2807-30-9	NO	YES	NO	YES	NO
COMMON NAME :	ETHYLENE GLYCOL MONOPROPYL ETHER					

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.