

**SECTION 1**

PRODUCT IDENTIFIER 4308.09400 DGUARD ALK GLO SAFYEL 18.9L  
 DATE OF PREPARATION NOVEMBER 30, 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

**APPROVED MATERIAL**

FEB 07 2013

MSDS # 10247APPROVED BY *[Signature]***SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT	WT. %:
CHEMICAL NAME ALKYD RESIN	10-20
COMMON NAME : ALKYD RESIN	
CAS NUMBER: CONFIDENTIAL	
CHEMICAL NAME LONG OIL ALKYD RESIN	10-20
COMMON NAME : LONG OIL ALKYD RESIN	
CAS NUMBER: CONFIDENTIAL	
CHEMICAL NAME TRADE SECRET	1-5
COMMON NAME : TRADE SECRET	
CAS NUMBER: CONFIDENTIAL	
CHEMICAL NAME 1,3,5-TRIMETHYLBENZENE	.1-1.0
COMMON NAME : 1,3,5-TRIMETHYLBENZENE	
CAS NUMBER: 108-67-8	
CHEMICAL NAME TITANIUM OXIDE	5-10
COMMON NAME : TITANIUM DIOXIDE	
CAS NUMBER: 13463-67-7	
CHEMICAL NAME BUTANAMIDE, 2-((4-CHLORO-2-NITROPHENYL)AZO)- N-(2-METHOXYPHENYL)-3-OXO-	5-10
COMMON NAME : C.I. PIGMENT YELLOW 73	
CAS NUMBER: 13515-40-7	
CHEMICAL NAME HEXANOIC ACID, 2-ETHYL-, COBALT(2+) SALT	.1-1.0
COMMON NAME : COBALT ALKANOATE	
CAS NUMBER: 136-52-7	
CHEMICAL NAME C.I. PIGMENT YELLOW 42	1-5
COMMON NAME : YELLOW IRON OXIDE	
CAS NUMBER: 51274-00-1	
CHEMICAL NAME ETHANOL	.1-1.0
COMMON NAME : ETHYL ALCOHOL	
CAS NUMBER: 64-17-5	
CHEMICAL NAME SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC	20-30
COMMON NAME : MEDIUM ALIPHATIC SOLVENT NAPHTHA	
CAS NUMBER: 64742-88-7	
CHEMICAL NAME QUATERNARY AMMONIUM COMPOUNDS, BIS(HYDROGENATED TALLOW ALKYL)DI-METHYL, SALTS WITH BENTONITE	1-5
COMMON NAME : DISPERSANT, ORGANOCCLAY	
CAS NUMBER: 68953-58-2	
CHEMICAL NAME STODDARD SOLVENT	10-20
COMMON NAME : MINERAL SPIRITS	
CAS NUMBER: 8052-41-3	
CHEMICAL NAME BENZENE,1,2,4-TRIMETHYL-	.1-1.0
COMMON NAME : PSEUDOCUMENE	
CAS NUMBER: 95-63-6	

**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, COUGHING, CENTRAL NERVOUS SYSTEM DEPRESSION, INTOXICATION, DIFFICULTY OF BREATHING, ALLERGIC RESPONSE, ASTHMATIC REACTION, SEVERE LUNG IRRITATION OR DAMAGE, LIVER DAMAGE, KIDNEY DAMAGE, CONVULSIONS, LOSS OF CONSCIOUSNESS, ASPHYXIATION. POSSIBLE SENSITIZATION TO RESPIRATORY TRACT.

SKIN CONTACT IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS, DEFATTING, ALLERGIC RESPONSE. 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, THIS MATERIAL IS CORROSIVE AND MAY CAUSE BURNS ON CONTACT. PROLONGED OR REPEATED CONTACT CAN CAUSE CONJUNCTIVITIS.

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, GASTRO-INTESTINAL DISTURBANCES, CENTRAL NERVOUS SYSTEM DEPRESSION, DIFFICULTY OF BREATHING, CONVULSIONS, LOSS OF CONSCIOUSNESS.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE  
EYE, SKIN, RESPIRATORY 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.  
GET MEDICAL ATTENTION IF DISCOMFORT OR IRRITATION PERSISTS.

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.  
IF IRRITATION OCCURS, CONSULT A PHYSICIAN.

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) 104 F./ 40 C. LOWER EXPLOSIVE LIMIT .7 (%)  
UPPER EXPLOSIVE LIMIT 13.3 (%)

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.  
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,  
AMMONIA, TOXIC GASES.

### 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. EVACUATE  
ALL UNNECESSARY PERSONNEL. PLACE COLLECTED MATERIAL IN  
PROPER CONTAINER.  
AVOID WETTING SPILLS AS SURFACES CAN BECOME VERY SLIPPERY.  
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.  
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 :	TITANIUM DIOXIDE		
CAS NUMBER:	13463-67-7		
ACGIH (TWA):	10 MG/M3	OSHA (TWA):	10 MG/M3
COMMON NAME :	COBALT ALKANOATE		
CAS NUMBER:	136-52-7		
ACGIH (TWA):	.02 MG/M3	OSHA (TWA):	.05 MG/M3
COMMON NAME :	YELLOW IRON OXIDE		
CAS NUMBER:	51274-00-1		
ACGIH (TWA):	5 MG/M3	OSHA (TWA):	10 MG/M3
COMMON NAME :	MEDIUM ALIPHATIC SOLVENT NAPHTHA		
CAS NUMBER:	64742-88-7		
ACGIH (TWA):	100 PPM	OSHA (TWA):	500 X PPM
COMMON NAME :	DISPERSANT, ORGANOCCLAY		
CAS NUMBER:	68953-58-2		
ACGIH (TWA):	10 MG/M3	OSHA (TWA):	15 MG/M3
COMMON NAME :	MINERAL SPIRITS		
CAS NUMBER:	8052-41-3		
ACGIH (TWA):	100 PPM	OSHA (TWA):	500 PPM
	X AS PETROLEUM DISTILLATES		

#### 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.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

VAPOR PRESSURE:	NOT AVAILABLE	SPECIFIC GRAVITY:	.993
BOILING RANGE (F/C):	276-417/136-214	WEIGHT PER GALLON:	8.27/ 9.93IMP
%VOLATILE BY VOLUME:	57.16		
PHYSICAL STATE:	LIQUID	APPEARANCE	YELLOW
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, HALOGENS.

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 :	TRADE SECRET			
CAS NUMBER:	CONFIDENTIAL			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
COMMON NAME :	TITANIUM DIOXIDE			
CAS NUMBER:	13463-67-7			
CARCINOGENICITY LISTED BY:	NTP YES 2B	IARC YES 2B	OSHA NO	ACGIH NO
LD50:	24.00 GM/KG	ORL RAT		
LC50:	6820.00 MG/M3/4HR	IHL RAT		
COMMON NAME :	C.I. PIGMENT YELLOW 73			
CAS NUMBER:	13515-40-7			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
COMMON NAME :	COBALT ALKANOATE			
CAS NUMBER:	136-52-7			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
COMMON NAME :	YELLOW IRON OXIDE			
CAS NUMBER:	51274-00-1			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
LD50:>	10.00 GM/KG	ORL 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 :	DISPERSANT, ORGANOCCLAY			
CAS NUMBER:	68953-58-2			
CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
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		

## 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.

## CARCINOGENICITY

CONTAINS IRON OXIDE, REPEATED OR PROLONGED EXPOSURE TO IRON OXIDE DUST MAY CAUSE SIDEROSIS, A BENIGN PNEUMOCONIOSIS. 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 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.

THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED TITANIUM DIOXIDE AS POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B) BASED ON INADEQUATE EVIDENCE OF CARCINOGENICITY IN HUMANS AND SUFFICIENT EVIDENCE OF CARCINOGENICITY IN EXPERIMENTAL 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

NO REPRODUCTIVE EFFECTS ARE ANTICIPATED

## MUTAGENICITY

NO MUTAGENIC EFFECTS ARE ANTICIPATED

## 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, COMBUSTIBLE LIQUID, PGIII  
PAINT  
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: 136-52-7	NO	YES	NO	YES	NO
COMMON NAME : COBALT ALKANOATE					

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

4308.09400 DGUARD ALK GLO SAFYEL 18.9L

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.