# MATERIAL SAFETY DATA SHEET DU PONT FINISHES & FABRICATED PRODUCTS

# \*\*\*\*\* SECTION I \*\*\*\*\*

FORMULA DATE: 840302

MANUFACTURER:

DATE: 09/08/87

E.I. DUPONT DE NEMOURS &CO (INC)

FINISHES & FABRICATED PRODUCTS DEPT. 1007-T market St.

WILMINGTON, DELAWARE 19898

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PRODUCT INFORMATION (800) 441-7515 MEDICAL EMERGENCY (800) 441-3637

TRANSPORTATION EMERGENCY (800) 424-9300 (CHEMTREC)

IDENTITY: "CORLAR" EPOXY D.B. ENAMEL WHITE

DUPONT

50.0 PPM

SALES CODE: 823Y67632

DOT NAME: FLAMMABLE LIQUID

HEALTH: 2 FLAMMABILITY: 3

REACTIVITY: 0

15 MIN TWA

\*\*\*\*\* SECTION II - INGREDIENTS \*\*\*\*\*

INGRED#	CAS NO.				INGREDIENT	
002 7 003 1	13463-67-7 TITANIUM DIOXIDE 7727 -43-7 BARIUM SULFATE 14807-96-6 HYDROUS MAGNESIUM SILICATE 25036-25-3 BISPHENOL A/EPICHLOROHYDRIN POLYMER 71-36-3 N-BUTYL ALCOHOL 108-88-3 TOLUENE 67-63-0 ISOPROPYL ALCOHOL 141-78-6 ETHYL ACETATE 108-65-6 PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE					
INGRED#	VAPOR PRESSURE MM HG		EXPOSURI	E LIMITS		
001	NOT APP	ACGIH OSHA	10.0 h	1-03/47/15/74		
002	NOT APP	ACGIH OSHA	10.0 NONE	MG/M3		
003	NOT APP	ACGIH OSHA DUPONT	5.0	MG/M3 MG/M3 MG/M3		RESPIRABLE NOASBESTOS NOASBESTOS RESPIRABLE NOASBESTOS
004	NONE	ACGIH OSHA	NONE NONE			
005	5.50 25 DEG (C)	ACGIH OSHA DUPONT	50.0 100.0 25.0	PPM	SKIN	CEILING

\*SIMH

PERSONAL PROTECTION

NC-LSGIR @1981 NO

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006		36.70	ACGIH	100.0	PPM		
	25	DEG (C)	OSHA	200.0	PPM		
			ACGIH	150.0	PPM		15 MIN(STEL)
			OSHA	300.0	PPM	CEILING	
			OSHA	500.0	PPM		MAX (10MIN)
007		33.00	ACGIH	400.0	PPM		
	25	DEG (C)	OSHA	400.0	PPM		
			ACGIH	500.0	PPM		15 MIN(STEL)
008		76.00	ACGIH	400.0	PPM		
	25	DEG (C)	OSHA	400.0	PPM		
009		3.80	ACGIH	NONE			
0.70.707	25	DEG (C)	OSHA	NONE			

#### \*\*\*\*\* SECTION III - PHYSICAL DATA \*\*\*\*\*

EVAPORATION RATE SLOWER THAN ETHER	VAPOR DENSITY HEAVIER THAN AIR	SOLUBILITY OF SOLVENT SYSTEM IN WATER APPRECIABLE		
PERCENT VOLATILE BY VOLUME 52.0	APPROX. BOILING RANGE 76-190 DEG (C)	WEIGHT PER GALLON 11.92		
PERCENT VOLATILE BY WEIGHT 31.9	PERCENT SOLIDS 68.0	V.O.C. THEORETICAL 3.82		

#### \*\*\*\*\* SECTION IV - FIRE & EXPLOSION DATA \*\*\*\*\*

FLASH POINT (METHOD) BETWEEN 20 - 73 F (CC) APPROX. FLAMMABLE LIMITS LEL .9 % UEL .0 %

EXTINGUISHING MEDIA: FOAM , CARBON DIOXIDE, DRY CHEMICAL SPECIAL FIRE FIGHTING PROCEDURES: FULL PROTECTIVE EQUIP-MENT, INCLUDING SELF-CONTAINED BREATHING APPARATUS, IS RECOMMENDED. WATER FROM FOG NOZZLES MAY USED TO PREVENT PRESSURE BUILD-UP.

UNUSUAL FIRE & EXPLOSION HAZARDS: WHEN HEATED ABOVE THE FLASHPOINT, EMITS FLAMMABLE VAPORS WHICH, WHEN MIXED WITH AIR, CAN BURN OR BE EXPLOSIVE. FINE MISTS OR SPRAYS MAY BE FLAMMABLE AT TEMPERATURES BELOW THE FLASH POINT.

\*\*\*\*\* SECTION V - HEALTH HAZARD DATA \*\*\*\*

ROUTE OF ENTRY SYMPTOMS/EFFECTS AND FIRST AID

INHALATION: MAY CAUSE NOSE AND THROAT IRRITATION . MAY CAUSE NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY THE FOLLOWING PROGRESSIVE STEPS: HEADACHE, DIZZINESS, NAUSEA, STAGGERING

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\*\*\*\* SECTION Y CONTINUED \*\*\*\*

GAIT. CONFUSION, UNCONSCIOUSNESS.

REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

SKIN OR EYE CONTACT: MAY CAUSE IRRITATION OR BURNING OF THE EYES. REPEATED OR PROLONGED LIQUID CONTACT MAY CAUSE SKIN IRRITATION WITH DISCOMFORT AND DERMATITIS.

### OTHER POTENTIAL HAZARDS INCLUDE:

#### TITANIUM DIOXIDE

IN A LIFETIME INHALATION TEST, LUNG CANCERS WERE FOUND IN SOME RATS EXPOSED TO 250 MG/M3 RESPIRABLE TITANIUM DUST. ANALYSIS OF THE TITANIUM DIOXIDE CONCENTRATIONS IN THE RAT'S LUNGS SHOWED THAT THE LUNG CLEARANCE MECHANISM WAS OVERWHELMED AND THAT THE RESULTS AT THE MASSIVE 250 MG/M3 LEVEL ARE NOT RELEVANT TO THE WORKPLACE.

### HYDROUS MAGNESIUM SILICATE

TALC

REPEATED AND PROLONGED OVEREXPOSURE TO TALC MAY LEAD TO TYPICAL X RAY CHANGES AND CHRONIC LUNG DISEASE.

# BISPHENOL A/EPICHLOROHYDRIN POLYMER

REPEATED EXPOSURE MAY CAUSE ALLERGIC SKIN RASH, ITCHING, SWELLING.

HAS SHOWN MUTAGENIC ACTIVITY IN LABORATORY CELL CULTURE TESTS.

#### N-BUTYL ALCOHOL

LIQUID SPLASHES IN THE EYE MAY RESULT IN CHEMICAL BURNS.
MAY CAUSE ABNORMAL LIVER FUNCTION.
MAY CAUSE ABNORMAL KIDNEY FUNCTION.

#### TOLUENE

RECURRENT OVEREXPOSURE MAY RESULT IN LIVER AND KIDNEY INJURY.

HIGH AIRBORNE LEVELS HAVE PRODUCED IRREGULAR HEART BEATS IN ANIMALS AND OCCASIONAL PALPITATIONS IN HUMANS. RATS EXPOSED TO VERY HIGH AIRBORNE LEVELS HAVE EXHIBITED HIGH FREQUENCY HEARING DEFICITS. THE SIGNIFICANCE OF THIS TO MAN IS UNKNOWN.

#### ISOPROPYL ALCOHOL

INGESTION STUDIES ON LABORATORY ANIMALS SHOWED THAT VERY HIGH ORAL DOSES CAUSED INCREASED LIVER AND KIDNEY WEIGHTS. HIGH ORAL DOSES HAVE CAUSED ANEMIA IN LABORATORY ANIMALS.

# ETHYL ACETATE

PROLONGED AND REPEATED HIGH EXPOSURES OF LABORATORY ANIMALS RESULTED IN SECONDARY ANEMIA WITH AND INCREASE IN WHITE BLOOD CELLS; FATTY DEGENERATION, CLOUDY SWELLING AND AN EXCESS OF BLOOD IN VARIOUS ORGANS.

# \*\*\*\* SECTION V CONTINUED \*\*\*\*

ENE GLYCOL MONOMETHYL ETHER ACETATE
MAY CAUSE MODERATE EYE BURNING
RECURRENT OVEREXPOSURE MAY RESULT IN LIVER AND KIDNEY
INJURY.

#### FIRST AID:

INHALATION: IF AFFECTED BY INHALATION OF VAPOR OR SPRAY MIST, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING DIFFICULTY PERSISTS, OR OCCURS LATER, CONSULT A PHYSICIAN.

SKIN OR EYE: IN CASE OF CONTACT, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES; CALL A PHYSICIAN. IN CASE OF SKIN CONTACT, WASH WITH SOAP AND WATER. IF IRRITATION OCCURS, CONTACT A PHYSICIAN.

INGESTION: GASTRO-INTESTINAL DISTRESS.
IN THE UNLIKELY EVENT OF INGESTION, CALL A PHYSICIAN IMMEDIATELY AND HAVE NAMES OF INGREDIENTS AVAILABLE.

### \*\*\*\*\* SECTION VI - REACTIVITY DATA \*\*\*\*\*

# CABLE

INCOMPATIBILITY (MATERIALS TO AVOID): NONE REASONABLY FORESEEABLE.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO2, SMOKE, OXIDES OF HEAVY METALS REPORTED IN SECTION V.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

# \*\*\*\*\* SECTION VII - SPILL OR LEAK PROCEDURES \*\*\*\*\*

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: VENTILATE AREA. REMOVE SOURCES OF IGNITION. PREVENT SKIN CONTACT AND BREATHING OF VAPOR. CONFINE AND REMOVE WITH INERT ABSORBENT.

WASTE DISPOSAL METHOD: DO NOT ALLOW MATERIAL TO CONTAMINATE GROUND WATER SYSTEMS. INCINERATE ABSORBED MATERIAL IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS. DO NOT INCINERATE IN CLOSED CONTAINERS.

#### \*\*\*\*\* SECTION VIII - SPECIAL PROTECTION INFORMATION \*\*\*\*

RESPIRATORY: DO NOT BREATHE VAPORS OR MISTS. WEAR A PROPERLY FITTED VAPOR/PARTICULATE RESPIRATOR APPROVED BY NIOSH/MSHA (TC-23C) FOR USE WITH PAINTS DURING APPLICATION AND UNTIL ALL VAPORS AND SPRAY MISTS ARE EXHAUSTED. FOLLOW THE RESPIRATOR MANUFACTURER'S DIRECTIONS FOR RESPIRATOR USE

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VENTILATION: PROVIDE SUFFICIENT VENTILATION IN VOLUME AND PATTERN TO KEEP CONTAMINANTS BELOW APPLICABLE OSHA REQUIRE-MENTS AND OTHER SUGGESTED EXPOSURE LIMITS.
PROTECTIVE CLOTHING: NEOPRENE GLOVES AND COVERALLS ARE RECOMMENDED.
EYE PROTECTION: GOGGLES ARE PREFERRED TO PREVENT EYE IRRITATION. IF SAFETY GLASSES ARE SUBSTITUTED, INCLUDE SPLASH GUARD OR SIDE SHIELDS.
PROTECTIVE CREAMS: DO NOT USE FOR PROTECTION. MAY BE USED FOR EASE OF CLEAN UP.

#### \*\*\*\*\* SECTION IX - SPECIAL PRECAUTIONS \*\*\*\*\*

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: OBSERVE LABEL PRECAUTIONS. KEEP AWAY FROM HEAT, SPARKS AND FLAME. CLOSE CONTAINER AFTER EACH USE. GROUND CONTAINERS WHEN POURING. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR SMOKING. DO NOT STORE ABOVE 120 F. OTHER PRECAUTIONS: DO NOT SAND, FLAME CUT, BRAZE OR WELD DRY COATING WITHOUT A NIOSH/MSHA APPROVED RESPIRATOR OR APPROPRIATE VENTILATION.

\*\*\*\*\* SECTION X - NOTES \*\*\*\*\*

# NOTICE FROM DUPONT

THE DATA IN THIS MATERIAL SAFETY DATA SHEET RELATE ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN AND DO NOT RELATE TO USE IN COMBINATION WITH ANY OTHER MATERIAL OR ANY PROCESS.

PRODUCT MANAGER