

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: LIQUID POLYFLEX PART A

HMIS CODES: H2 F1 RO PG

PRODUCT CODE: F9601

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Pro Guard Coatings

ADDRESS: One Industrial Way Denver, PA 17517

EMERGENCY PHONE: 1-800-424-9300 INFORMATION PHONE: 717-336-7900 DATE REVISED: 8/7//06

NAME OF PREPARER: DPC

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

HAZARDOUS COMPONENTS		OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE		WEIGHT
		OSHA PEL	ACGIR TLV	OTHER	am Hg@	TEMP	PERCENT
PROPRIETARY INFORMATION	MIXTURES				N/A		

*** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:	170° F	SPECIFIC GRAVITY (H20=1):	0.2
VAPOR DENSITY:	LIGHTER THAN AIR	EPAPORATION RATE:	SLOWER THAN ETHER
COATING V.O.C.	0.03 LB/GL (4 G/L)		
MATERIAL V.O.C.	0.03 LB/GL (4 G/L)		
SOLUBILITY IN WATER:	INSOLUBLE		
APPEARANCE AND ODOR:	WHITE VISCOUS LIQUID WITH SWEET ODOR		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	200° F	METHOD USED:	DIN 51755	
FLAMMABLE LIMITS IN AIR BY VOLUME-	LOWER:	N/A	UPPER:	N/A
EXTINGUISHING MEDIA;	FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG			
SPECIAL FIREFIGHTING PROCEDURES: FIREFIGHTERS SHOULD BE EQUIPED WITH SELF-CONTAINED BREATHING APPARATUS AND TURN OUT GEAR.				
UNUSUAL FIRE AND EXPLOSION HAZARDS: PRODUCT SHOULD BE STORED AWAY FROM IGNITION SOURCES. CONTAINERS SHOULD BE OPENED IN WELL-VENTILATED AREAS.				

SECTION V - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID:

IGNITION SOURCES AND HEAT

INCOMPATIBILITY (MATERIALS TO AVOID)

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

CO, CO₂, NO_x, HYDROCARBONS

HAZARDOUS POLERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

IRRITATION TO RESPIRATORY TRACT AND MUCOUS MEMBRANES.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

IRRITATING TO SKIN AND EYES. REDNESS, ITCHING, TEARING OF EYES.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

PROLONGED OR REPEATED CONTACT MAY RESULT IN DERMATITIS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

NAUSEA, VOMITING

HEALTH HAZARDS (ACUTE AND CHRONIC)

CRONIC OVEREXPOSURE TO ETHYL ACETATE MAY LEAD TO LIVER, KIDNEY, LUNG DAMAGE, AND POSSIBLE BLOOD DISORDERS SUCH AS ANEMIA.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO
N/A

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

NO DATA IS AVAILABLE WHICH ADDRESSES MEDICAL CONDITIONS THAT ARE GENERALLY RECGONIZED AS BEING AGGRAVATED BY THIS PRODUCT.

EMERGENCY AND FIRST AID PROCEDURES

Eye: immediately rinse eyes with water for 15 minutes. If irritation develops get medical attention.

Skin: Wash affected areas with soap and water. Remove contaminated clothing and shoes and do not reuse until laundered.

Inhalation: Move to fresh air. Aid in breathing; get medical attention.

Ingestion: If swallowed dilute with water. Do not induce vomiting. Get medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

DAM SPILL AREA. COLLECT WITH ABSORBENT AREA. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

WASTE DISPOSAL METHOD

LAND FILL SOLIDS AT PERMITTED SITES. USE REGISTERED TRANSPORTERS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

AVOID IGNITION SOURCES AND HEAT. STORE IN A COOL DRY PLACE. KEEP CONTAINERS CLOSED.

OTHER PRECAUTIONS**SECTION VIII - CONTROL MEASURES****RESPIRATORY PROTECTION**

IF VAPORS OR MISTS ARE GENERATED WEAR A NIOSH/MSHA APPROVED ORGANIC VAPOR/MIST RESPIRATOR.

VENTILATION

USE LOCAL EXHAUST TO CONTROL TO RECOMMENDED P.E.L.

PROTECTIVE GLOVES

Impervious gloves

EYE PROTECTION

SAFETY GLASSES OR GOGGLES.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT**WORK/HYGIENIC PRACTICES**

WASH HANDS AFTER USE WITH SOAP AND WATER.

SECTION IX - DISCLAIMER**DISCLAIMER**

The facts stated are based upon information believed to be accurate. No guarantee is made of data accuracy. We do not assume responsibility or liability for use of this product, since we have no control over the conditions or methods of its use. Compliance with all applicable federal state and local regulations is the responsibility of the user.

MATERIAL SAFETY DATA SHEET

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PRODUCT NAME: (9600) LIQUID POLYFLEX PART B

HMIS CODES: H2 F1 R1 PH

PRODUCT CODE: F9600

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Pro Guard Coatings

ADDRESS: One Industrial Way Denver, PA 17517

EMERGENCY PHONE: 1-800-424-9300 INFORMATION PHONE: 717-336-7900 DATE REVISED: 11/09/06

NAME OF PREPARER: Sue Nielsen

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

		OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE	WEIGHT
HAZARDOUS COMPONENTS	CAS NUMBER	OSHA PEL	ACGIR TLV	OTHER	am Hg @ TEMP	PERCENT
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE (HDI)	28182-81-2				N/A	

*** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present***

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:	NOT MEASURABLE	SPECIFIC GRAVITY (H2O=1):	1.1
VAPOR DENSITY:	LIGHTER THAN AIR	EPAPORATION RATE:	SLOWER THAN ETHER
COATING V.O.C.	N/A		
MATERIAL V.O.C.	N/A		
SOLUBILITY IN WATER:	NOT SOLUBLE		
APPEARANCE AND ODOR:	ORDORLESS, CLEAR, SLIGHTLY YELLOW VISCOUS LIQUID		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	385°F	METHOD USED:	SETA
FLAMMABLE LIMITS IN AIR BY VOLUME-	LOWER:	N/A	UPPER: N/A
EXTINGUISHING MEDIA:	ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG		
SPECIAL FIREFIGHTING PROCEDURES: FULL EMERGENCY EQUIPMENT WITH SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE CLOTHING SHOULD BE WORN BY FIREFIGHTERS DURING A FIRE. HDI VAPORS AND OTHER IRRITATING HIGHLY TOXIC GASSES MAY BE GENERATED BY THERMAL DECOMPOSITION.			
UNUSUAL FIRE AND EXPLOSION HAZARDS: CLOSED CONTAINER MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR BURST WHEN CONTAMINATED WITH WATER. COOL FIRE-EXPOSED CONTAINERS WITH WATER TO PREVENT RUPTURE.			

SECTION V - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID:

AVOID HIGH HEAT AND DIRECT CONTACT WITH WATER.

INCOMPATIBILITY (MATERIALS TO AVOID)

WATER, AMINES, STRONG BASES, ALCOHOLS, METAL COMPOUNDS, AND SURFACE ACTIVE MATERIALS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, HCN, HDI AND OTHER ALIPHATIC FRAGMENTS.

HAZARDOUS POLERIZATION: MAY OCCUR

CONTACT WITH MOISTURE OR OTHER MATERIALS WHICH REACT WITH ISOCYANATES OR TEMPERATURE ABOVE 400°F MAY CAUSE POLYMERIZATION.

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

HDI VAPORS AT CONCENTRATIONS ABOVE THE TLV OR MGL CAN IRRITATE THE MUCOUS MEMBRANES IN THE RESPIRATORY TRACT CAUSING RUNNY NOSE, SORE THROAT, COUGHING, CHEST DISCOMFORT, SHORTNESS OF BREATH AND REDUCED LUNG FUNCTION.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

ISOCYANATES REACT WITH SKIN PROTEIN AND MOISTURE AND CAN CAUSE IRRITATION. SYMPTOMS MAY INCLUDE REDDENING, SWELLING, RASH, SCALING OR BLISTERING. VAPORS MAY ALSO CAUSE EYE IRRITATION SUCH AS TEARING, REDDENING AND SWELLING.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SEE ABOVE

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

INGESTION CAN RESULT IN IRRITATION AND POSSIBLE CORROSIVE ACTION IN THE MOUTH, STOMACH TISSUES AND DIGESTIVE TRACT.

HEALTH HAZARDS (ACUTE AND CHRONIC)

ACUTE: **INHALATION:** EXPOSURE MAY LEAD TO ACUTE BRONCHITIS. **SKIN:** REDDENING, SWELLING, RASH **EYE:** REDNESS, IRRITATION, SWELLING

CHRONIC: **INHALATION:** REPEATED OVEREXPOSURE MAY DEVELOP WHEEZING, CHEST TIGHTNESS, COUGH, SHORTNESS OF BREATH OR ASTHMATIC ATTACK. **SKIN:** REDNESS, SWELLING, SCALING OR BLISTERING. **EYE:** MAY RESULT IN CORNEAL OPACITY (CLOUDING OF THE EYE SURFACE)

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

THIS PRODUCT IS NOT LISTED BY NTP, IARC OR REGULATED AS A CARCINOGEN BY OSHA.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

ASTHMA AND OTHER RESPIRATORY DISORDERS; SKIN ALLERGIES, ECZEMA AND EXISTING EYE CONDITIONS

EMERGENCY AND FIRST AID PROCEDURES: **Eye:** FLUSH WITH CLEAN LUKEWARM WATER (LOW PRESSURE) FOR 15 MINUTES WHILE LIFTING EYELIDS WITH FINGERS. SEEK MEDICAL ATTENTION. **Skin:** REMOVE CONTAMINATED CLOTHING, WASH WITH SOAP AND WATER. SEEK MEDICAL ATTENTION. **Inhalation:** MOVE TO AN AREA FREE FROM RISK OF FURTHER EXPOSURE. ADMINISTER OXYGEN (BY PROFESSIONAL) AS NEEDED. SEEK MEDICAL ATTENTION. **Ingestion:** DO NOT INDUCE VOMITING. GIVE 1 TO 2 CUPS OF MILK TO DRINK FOR DILUTION. SHOULD VOMITING OCCUR, KEEP HEAD LOWER THAN HIP LEVEL TO PREVENT ASPIRATION OF FLUID INTO LUNGS. SEEK MEDICAL ATTENTION.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

EVACUATE NON-ESSENTIAL PERSONNEL. REMOVE SOURCES OF IGNITION. NOTIFY APPROPRIATE AUTHORITIES IF NECESSARY. DIKE OR IMPOUND SPILLED MATERIAL TO PREVENT FROM ENTERING GROUNDWATER. WASH DOWN SPILL AREA WITH DECONTAMINATION SOLUTIONS.

WASTE DISPOSAL METHOD

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. INCINERATION IS THE PREFERRED METHOD. IF INCINERATED TOXIC AND CORROSIVE GASSES MUST BE PROPERLY HANDELED

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

KEEP AWAY FROM HEAT AND DIRECT CONTACT WITH WATER.

OTHER PRECAUTIONS

EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY OR OTHER SOURCES OF IGNITION. ALL CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER AND IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION

A RESPIRATOR THAT IS RECOMMENDED OR APPROVED FOR USE IN ISOCYANATE-CONTAINING ENVIRONMENTS (AIR PURIFYING OR FRESH AIR SUPPLIED) MAY BE NECESSARY FOR SPRAY APPLICATION.

VENTILATION

GOOD INDUSTRIAL HYGIENE PRACTICE DICTATES THAT WORKER PROTECTION SHOULD BE ACHIEVED THROUGH ENGINEERING CONTROLS, SUCH AS VENTILATION WHENEVER FEASIBLE. WHEN SUCH CONTROLS ARE NOT FEASIBLE, THE USE OF PROTECTIVE EQUIPMENT IS MANDATED.

PROTECTIVE GLOVES

LATEX, NEOPRENE, VINYL OR OTHER CHEMICAL RESISTANT GLOVES.

EYE PROTECTION

SAFETY GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

WEAR IMPERVIOUS CLOTHING AND BOOTS. EYE BATH AND SHOWER WHERE POSSIBLE.

WORK/HYGIENIC PRACTICES

ALL EQUIPMENT SHOULD BE GROUNDED AND BONDED TO REDUCE STATIC. NORMAL HYGIENIC PRACTICES APPLY.

SECTION IX - DISCLAIMER

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