Material Safety Data Sheet

Chemical Name:	**Poly-Koat 600 Polyurethane Aluminum**
Date of Preparation:	January 5, 2011
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Revision #	2

Section 1 – Chemical Product and Company Identification

Product / Chemical Name:	**Poly-Koat 600 Polyurethane Aluminum**
Product Composition:	Polyurethane Coating
CAS Number:	Mixture
Manufacturer's Name:	Anchor Coatings Corp
Manufacturer's Address:	2280 Tally Road Leesburg, FL 34748 (352) 728-0777
Emergency Telephone Number:	(352) 728-0777

Section 2 – Composition / Information on Ingredients

Hazardous/Regulated Components	CAS Number	Amount by Weight
Polymeric Diphenylmethane Diisocyanate	9016-87-9	< 1%
4,4'-Diphenylmethane-Diisocyanate	101-68-8	<1%
Xylene	1330-20-7	10-20 %
Ethylbenzene	100-41-4	2-10 %
p-Toluenesulfonyl Isocyanate	4083-64-1	< 0.2 %

Section 3 – Hazards Identification

Effects of overexposure:

Inhalation:	Prolonged and/or repeated exposure can cause severe respiratory irritation. Exposure may cause allergic respiratory reaction. Overexposure could cause sensitization in some individuals resulting in asthma-like symptoms even at exposures lower than the TLV.
Eyes:	Contact may cause irritation and/or moderate or severe eye injury. May cause clouding of the eye surface.
Skin:	May cause moderate skin irritation, skin burns, and possible sensitization. Symptoms may appear with exposure at very low levels to those previously sensitized.
Ingestion:	Harmful is swallowed.

Section 4 – First Aid Measures

Inhalation:	Move subject to fresh air. If not breathing then give artificial respiration. Get medical attention immediately.
Eye Contact:	Flush with water initially and remove contact lenses. Continue to flush eyes with large amounts of water for 15 minutes. Get medical attention immediately.
Skin Contact:	Remove contaminated clothing and shoes/boots. Wash affected area with large amounts of soap and water. Get medical attention immediately.
Ingestion:	If swallowed give two glasses of water to drink. Do not induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Section 5 – Fire-Fighting Measures

Flash Point:	80°F
Autoignition Temperature:	Not established
Flammable Limits in Air:	
LEL:	1%
UEL:	7%
Extinguishing Media:	Water, carbon dioxide, foam or dry powder
Fire-Fighting Instructions:	Use water spray to cool non-involved containers.
Fire-Fighting Equipment:	Wear SCBA with full-face piece operating in a positive pressure demand mode and full protective gear.
Fire or Explosion Hazards:	This product is considered combustible and is a fire hazard. During a fire isocyanate vapors and other irritating gases may be generated by thermal decomposition or combustion. At temperatures above 400°F, polymeric MDI can polymerize and decompose which can cause pressure build-up in closed containers. Use cold water to cool fire-exposed containers.

Section 6 – Accidental Release Measures

Spill / Leak Procedures:	Shut off ignition sources including electrical equipment and flames. Contain spilled material. Absorb spills with inert material such as vermiculite, dry sand or earth. Place in a closed container but do not seal. Ventilate area to remove vapors.
Disposal:	Disposal should be in accordance with local, state, and federal regulations. The preferred method of liquid waste is incineration. Cured, solid waste is considered non-hazardous and may be land filled if allowed. Keep all waste from entering sewers, drains or waterways.

Section 7 – Handling and Storage

Handling Precautions:	Avoid prolonged or repeated skin contact. Avoid breathing aerosols, spray mists, and heated vapors. Use only in well ventilated area. Use good personal and industrial hygiene practices. Keep container closed after each use.
Storage Requirements:	Recommended storage range is less than 90°F.

Section 8 – Exposure Controls / Personal Protection

Ventilation:	Use local exhaust ventilation and engineering controls to keep vapors below the recommended exposure limits.	
Respiratory Protection:	Wear suitable respirator (MSHA/NIOSH approved or equivalent) where exposure limits are exceeded.	
Exposure Guidelines:		
Xylene	ACGIH time weighted average	100 ppm
Xylene	ACGIH short term exposure limit	150 ppm
Xylene	OSHA Z1 permissible exposure limit	100 ppm
Xylene	NIOSH recommended exposure limit	435 mg/m^3
Xylene	NIOSH short term exposure limit	150 ppm
Ethyl Benzene	ACGIH time weighted average	100 ppm
Ethyl Benzene	ACGIH short term exposure limit	125 ppm
Ethyl Benzene	NIOSH recommended exposure limit	100 ppm
Ethyl Benzene	NIOSH short term exposure limit	125 ppm
Ethyl Benzene	OSHA Z1 permissible exposure limit	100 ppm
4,4-Diphenylmethane Diisocyanate	ACGIH TLV	0.05 mg/m^3
4,4-Diphenylmethane Diisocyanate	OSHA PEL	0.20 mg/m^3
4,4-Diphenylmethane Diisocyanate	NIOSH REL/TWA	0.05 mg/m^3
4,4-Diphenylmethane Diisocyanate	NIOSH REL/Ceiling	0.20 mg/m^3
Protective Equipment:	Impervious gloves, avoid all skin contact by covering as much of the exposed skin area as possible with appropriate clothing.	
Eye Protection:	Chemical splash goggles (ANSI Z-87.1 or approved equivalent) and/or face shield. Have an eye wash station available.	

Section 9 – Physical and Chemical Properties

Physical State:	Liquid
Appearance and Odor:	Viscous liquid
Vapor Pressure:	Not established
Density (pounds per gallon):	8.8-9.2
Water Solubility:	Not soluble- reacts with water
Boiling Point:	281-284°F
Viscosity (cps):	2,000-4,000
% Volatile by Weight:	19-23%
Evaporation Rate:	Slower than ether
Volatile Organic Compounds:	less than 250 g/liter

Section 10 – Stability and Reactivity

Stability:	Stable
Incompatibility:	Contact with water will cause this product to cure. Incompatible with acids, bases, and oxidizers
Hazardous Polymerization:	May polymerize
Hazardous Decomposition:	Will not occur if properly handled and stored. Reaction with water can create CO_2.

Section 11 – Toxicological Information

No information available

Section 12 – Ecological Information

No information available

Section 13 – Disposal Considerations

Disposal:	Treat or dispose of waste material in accordance with all local, state, and federal requirements.

Section 14 – Transport Information

Product Name:	**Poly-Koat 600 Polyurethane Aluminum**
Shipping Name:	PAINT, FLAMMABLE LIQUID
Shipping Class:	Paint, 3, UN1263, PG III

Section 15 – Regulatory Information

TSCA: All components of this product are believed to be in compliance with the inventory listing requirements of the US Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

OSHA Classification: This product is categorized as a hazardous material under OSHA HCS (29 CFR 1910.1200)

EPCRA Section 313 (40 CFR 372): Diisocyanate Compounds (Category Code N120) 50%

CERCLA: 4,4-Methylene Diphenyl Diisocyanate (CAS 101-68-8) has a 5,000 lb reportable quantity (RQ). Any spill or release above the RQ must be reported to the National Response Center (800-424-8802).

SARA Title III, Section 313: 4,4'-Diphenylmethane Diisocyanate (CAS # 101-68-8) approximately 2 %.

RCRA Status: This product is not listed as a hazardous waste.

State Regulations:

California Prop. 65:

WARNING! This product contains a chemical known in the State of California to cause cancer: Ethyl Benzene, Benzene

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm: Toluene, Benzene

Pennsylvania Hazardous Substances List: 4,4'-Diphenylmethane Diisocyanate
Florida Substance List: 4,4'-Diphenylmethane Diisocyanate
Illinois Toxic Substances List: 4,4'-Diphenylmethane Diisocyanate
Massachusetts Hazardous Substances List: 4,4'-Diphenylmethane Diisocyanate
Rhode Island List of Designated Substances: 4,4'-Diphenylmethane Diisocyanate
New Jersey Hazardous Substance List: 4,4'-Diphenylmethane Diisocyanate
New Jersey other–included in 5 predominant ingredients > 1%:
4,4'-Diphenylmethane Diisocyanate
Diphenylmethane Diisocyanate (2,2; 24)

Canadian Regulations:

WHIMIS Ingredient Disclosure List over 0.1%: 4,4'-Diphenylmethane Diisocyanate

Section 16 – Other Information

Prepared by:	Chuck Johnson
Approved by:	Chuck Johnson
Approval Date:	January 5, 2011

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