

MATERIAL SAFETY DATA SHEET FOR COATINGS, RESINS AND RELATED MATERIALS

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Section I -- PRODUCT IDENTIFICATION

Product name -- BRISTOL FINISH Acrylic Urethane Coating System

Product class -- 2-package urethane coating

SECTION II - HAZARDOUS INGREDIENTS

CAS No.	Ingredient	ACGIH TLV	OSHA PEL	VP	Urethane Base	Catalyst	Accelerator	Satin Additive	Reducer
64742-95-6	Light Aromatic Naptha	not estab.	not estab.	4		1-8%			
123-86-4	n-Butyl Acetate	150 PPM	150 PPM	15	0.04-0.05%	1-8%		15-25%	
110-43-0	Methyl n-Amyl Ketone	50 PPM	100 PPM	2.1	30-38%				
28182-81-2	Hexamethylene Diisocyanate Polymer	not estab.	not estab.	0		88-96%			
822-06-0	Hexamethylene Diisocyanate Monomer	0.005 PPM	not estab.	0		>0.15%			
106-65-0	Dimethyl Succinate	not estab.	not estab.	0.2	0.01-0.03%				19%
1119-40-0	Dimethyl Glutarate	not estab.	not estab.	0.2	0.05-0.08%				66%
763-69-9	Ethyl 3-Ethoxypropionate	not estab.	not estab.	1.5			>99%		
77-58-7	Dibutyltin Dilaurate	0.1 mg/m3	0.1 mg/m3	n/a			<1.0%		

SECTION III - PHYSICAL DATA

VOC - Total Volatile Organic Compounds (percentage)	40-45%	1-8%	99%	15-25%%	99%
Photochemically Reactive	No	No	No	No	No
Flash Point (F)	102	135	136	74	212
Flammability Class	Flammable	Flammable	Flammable	Flammable	Combustible
DOL Storage Category	1C	1C	1C	1C	1C
HMIS (NFPA) Rating (health - fire - reactivity)	2-3-0	2-2-1	2-3-0	2-3-0	2-3-0
Boiling Point	297F	320F	328F	259F	302F
Vapor Density	heavier than air				
Specific Gravity	1.01	1.10	0.95	1.22	1.09
Evaporation Rate	slower than ether				
Solubility in Water	insoluble				

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY, FLASH POINT -- See SECTION II Table LEL -- 0.5 UEL -- 7.6 EXTINGUISHING MEDIA -- Carbon dioxide, dry chemical, foam  
 UNUSUAL FIRE AND EXPLOSION HAZARDS -- Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.  
 SPECIAL FIRE FIGHTING PROCEDURES -- Full protective equipment, including self-contained breathing apparatus, should be used. Use water spray to cool closed containers to prevent pressure build-up and possible auto ignition or explosion when exposed to heat.

SECTION V -- HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE -- ACUTE: In a confined area vapors in high concentration are anesthetic. Overexposure may result in lightheadedness and staggering gait. Irritant to skin. May cause lung irritation and allergic reaction. CHRONIC: Prolonged overexposure to solvents may cause adverse effects to the liver, urinary, blood forming and reproductive systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. May cause lung irritation and allergic respiratory reaction.  
 EMERGENCY AND FIRST AID PROCEDURES  
 If INHALED: If any breathing problems occur during use, leave the area and get fresh air. If problems remain or occur later, immediately get medical attention.  
 If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.  
 If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SECTION VI -- REACTIVITY DATA

STABILITY -- Stable HAZARDOUS DECOMP. PRODUCTS -- By fire: Carbon dioxide, carbon monoxide. HAZARDOUS POLYMERIZATION -- Will not occur.

SECTION VII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED -- Remove all sources of ignition. Ventilate the area. All personnel in the area should be protected as in Section VIII. Cover spill with inert absorbent material and remove.

WASTE DISPOSAL METHOD -- Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations.

SECTION VIII -- PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN IN USE - NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES. Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using. Protect against dust which may be generated by sanding or abrading the dried film.  
 VENTILATION -- Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable limits. Refer to OSHA standards 1910.94, 1910.107, 1910.108.  
 RESPIRATORY PROTECTION -- Where overspray is present, a positive air supplied respirator (TC19C NIOSH/MSHA) is recommended. If unavailable, wear a vapor / particulate respirator which respirator manufacturer recommends as effective for isocyanate vapor or mist. NO PERSONS SHOULD BE ALLOWED IN THE AREA UNLESS EQUIPPED WITH THE SAME RESPIRATORY PROTECTION.  
 PROTECTIVE GLOVES -- Wear gloves which are recommended by glove supplier for protection against materials in Section II.  
 EYE PROTECTION -- Wear safety spectacles with unperforated side shields.

SECTION IX -- PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: -- Contents are FLAMMABLE. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: keep area ventilated, do not smoke, extinguish all flames, pilot lights, and heaters, turn off stoves, electric tools and appliances, and any other sources of ignition. Consult NFPA Code. Use approved bonding and grounding procedures. Keep container closed when not in use. Transfer only to approved containers with proper labeling. Do not take internally. Keep out of the reach of children. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. The above information pertains to this product as currently formulated, and is based on the information available at this time. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information.