

MATERIAL SAFETY DATA SHEET

Tel: (919) 304-3846

Use in case of emergency only:
CHEL-TEL – 1-800-255-3924 or 1-813-248-0585 (Call Collect)

SECTION I - MATERIAL IDENTIFICATION AND USE

WB Armaflex Finish

HMIS Hazard Index

- 4 Severe Hazard
- 3 Serious Hazard
- 2 Moderate Hazard
- 1 Slight Hazard
- 0 Minimal Hazard

HEALTH	1*
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	
B	



WHMIS Classification:

* Refer to 'Effects of Chronic Exposure to Material' section.

CHEMICAL NAME Not Applicable	CHEMICAL FAMILY Acrylic latex semi-gloss enamel	CHEMICAL FORMULA Not Applicable
TRADE NAME AND SYNONYMS WB Armaflex Finish	MOLECULAR WEIGHT Not Applicable	MATERIAL USE Armaflex surface finish/paint

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	%	C.A.S. NUMBERS	LD50 (SPECIES & ROUTE)	LC50 (SPECIES & ROUTE)
Butyl benzyl phthalate	< 9%	85-68-7	(ori-rat)2330mg/kg	Not Available
Acrylic latex, water, etc. *	90 - 95		Not Available	Not Available

* The polymers contained in this product are non-toxic. When used at room temperature, no incidence of adverse health effects resulting from inhalation of residual unpolymerized monomer vapors has been reported. Other ingredients contained in this product, considered to have certain toxicological properties, are below the minimum ingredient disclosure requirements of the CPR, and are therefore not indicated. The manufacturer, or supplier, of this product are not aware of any toxic synergisms between hazardous and non-hazardous ingredients ("Toxic" and "Non-Toxic" as defined under CPR).

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE Liquid		ODOR AND APPEARANCE White latex paint with mild, characteristic odor.	
ODOR THRESHOLD (PPM) Not Available	SPECIFIC GRAVITY (H₂O=1): 1.41	VAPOR PRESSURE Not Available	VAPOR DENSITY (Air=1): >1
EVAPORATION RATE (Ether= 1): < 1	BOILING POINT 100°C - 370°C	FREEZING POINT 0°C (Water)	SOLUBILITY IN WATER Dilutable
%VOLATILE (BY WEIGHT) (30 min @ 275°F): 56.5%	pH 8.3 - 8.9		COEFFICIENT OF WATER Not Available

SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY

MINIMAL HAZARD. Material will not burn in air when exposed to a temperature of 815.6°C (1500°F) for a period of 5 minutes. Material can splatter above 100°C. Dry product can burn.

MEANS OF EXTINCTION

Carbon dioxide, dry chemical, foam, water spray.

SPECIAL PROCEDURES

Protect fire fighters from toxic products of combustion by wearing self-contained breathing apparatus. Closed containers in a fire may rupture due to pressure build-up; use water to cool containers.

FLASHPOINT AND METHOD VOLUME)

Not Applicable

UPPER EXPLOSION LIMIT (% BY VOLUME)

Not Applicable

LOWER EXPLOSION LIMIT (% BY

Not Applicable

AUTOIGNITION TEMPERATURE

Not Applicable

HAZARDOUS COMBUSTION PRODUCTS

Oxides of carbon, smoke, toxic monomer.

SENSITIVITY TO MECHANICAL IMPACT

Not Applicable

SENSITIVITY TO STATIC DISCHARGE

Not Applicable

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY

Stable under ambient temperature and pressure. May coagulate if frozen at 0°C.

INCOMPATIBILITY TO OTHER SUBSTANCES

Strong oxidizing agents, acids, alkalies. Addition of chemicals may cause coagulation. Avoid contact with materials that are incompatible with water.

REACTIVITY AND UNDER WHAT CONDITIONS

Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of carbon, smoke and other potentially toxic vapors and gases that are common to thermal degradation of organic compounds.

SECTION VI - TOXICOLOGICAL PROPERTIES OF MATERIAL

ROUTE OF ENTRY

Inhalation acute, skin contact, eye contact, ingestion.

EFFECTS OF ACUTE EXPOSURE TO MATERIAL

Inhalation: Irritation to mucous membranes and upper respiratory tract. Selected individuals may experience allergic reactions with asthmatic symptoms. Human systemic effects by inhalation may include difficulty in breathing, coughing, CNS effects such as headache, dizziness, drowsiness, and nausea.

Skin and eyes: Contact with skin may result in irritation and dermatitis. Contact with eyes can cause severe irritation, redness, tearing, blurred vision.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL

Prolonged or repeated skin contact may cause irritation and inflammation. Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause dust disease of the lungs. Butyl benzyl phthalate is an experimental carcinogen and may have reproductive effects. Refer to "Carcinogenicity" and "Teratogenicity" sections for further information.

MATERIAL NAME/IDENTIFIER		WB Armaflex Finish	
LD50 OF MATERIAL (SPECIES & ROUTE) Not Available		LC50 OF MATERIAL (SPECIES & ROUTE) Not Available	
EXPOSURE (LIMITS) (ACGIH - TLV-TWA)		IRRITANCY OF MATERIAL	
SENSITIZATION OF MATERIAL Not Available		SYNERGISTIC MATERIALS Not Available	
CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY			
<p>Carcinogenicity: Female rats fed Butyl benzyl phthalate in long-term (2 year) studies conducted by the National Toxicology Program (NTP) were reported to show an increased frequency of mononuclear cell leukemia, a common spontaneous disease in the test strain of rat. For this reason, NTP concluded that Butyl benzyl phthalate was “probably carcinogenic” for these rats.</p> <p>Reproductive toxicity, teratogenicity, mutagenicity: Butyl benzyl phthalate has produced no genetic changes in standard tests using animal, bacterial and yeast cells. Butyl benzyl phthalate did not produce birth defects in rabbits given this material orally during pregnancy at doses that did not produce maternal toxicity. However, another study reports birth defects in mice and rats given Butyl benzyl phthalate orally during pregnancy but only at doses which produced significant toxic effects in the mothers and the offspring.</p>			
SECTION VII - PREVENTIVE MEASURES			
PERSONAL PROTECTIVE EQUIPMENT			
<p>Respiratory Protection: Avoid breathing of vapor, spray mist or sanding dust. When spray applied in outdoor or open areas with unrestricted ventilation, and during sanding or grinding operations, use NIOSH/MSHA approved mechanical filter respirator to remove solid airborne particles of overspray and sanding dust. When used in restricted areas, wear NIOSH/MSHA approved chemical/mechanical filters designed to remove a combination of particulates and vapor. When respirators when flame cutting, welding, brazing and sanding material coated with this product. Follow respirator manufacturer’s directions for respirator use.</p> <p>Skin and Eye Protection: Avoid contact with eyes and prolonged contact with skin. During the handling of this material, impervious gloves and spectacle-type safety glasses with splash guards or sideshields are recommended to prevent contact with this product.</p>			
ENGINEERING CONTROLS (E.G. VENTILATION, ENCLOSED PROCESS)			
Use natural cross-ventilation, local (mechanical) pick-up, and/or general area (mechanical) ventilation to prevent an accumulation of vapors, keeping in mind that the ventilation pattern must remove the heavier-than-air vapors from the lower levels of the work spaces, and to remove sanding dusts of dried coating and decomposition products during welding and flame cutting on surfaces coated with this product. The ventilation should be sufficient to keep vapor concentration below the TLV.			
LEAK AND SPILL PROCEDURE			
Ventilate area of spill or leak. Personnel involved in clear-up should wear personal protective equipment to prevent skin, eye and respiratory exposure. Wear boots to prevent contact with shoes. Contain spill, preventing it from entering sewer lines or waterways. Use clay or other inert absorbent to assist with the pick-up of material. Scrape up material and place in containers. Remove to safe place where material can dry. Residual of product can be cleaned up with warm soapy water.			
WASTE DISPOSAL			
Use only approved disposal methods in accordance with all federal, provincial, and local waste disposal regulations to dispose of container and product residue. Consult with local municipal officials, or provincial Ministry of the Environment office nearest to your location, for approved disposal methods.			
HANDLING PROCEDURES AND EQUIPMENT			
Avoid eye, prolonged or repeated skin contact, and breathing of vapors. Use with adequate ventilation. Close container after use. Do not reuse empty containers. Good hygienic practices should be observed. Wash thoroughly with soap and water before eating, drinking, smoking, or using toilet facilities. Launder contaminated clothing before reuse. Do not take internally. Use only as directed on label. Keep out of the reach of children.			
STORAGE REQUIREMENTS			
Store in area away from incompatibles. Recommended storage temperature is above 2°C and below 43°C. Do not allow to freeze.			
SPECIAL SHIPPING INFORMATION			
Ensure that all containers have appropriate lids and are securely closed. Transportation of Dangerous Goods (TDG) Act classification: Not Regulated.			

SECTION VIII - FIRST AID MEASURES

Inhalation: In case of excessive inhalation, or if exposed to excess concentrations of vapor, remove subject to fresh air. If breathing stopped, begin artificial respiration. Seek medical attention if symptoms persist.

Skin and Eyes: Flush any skin or eye contact with plenty of water for at least 15 minutes while removing contaminated clothing. If wearing contact lenses, remove them immediately and continue flushing. Additionally with skin contact, wash with soap and water. Refer to physician if irritation or symptoms persist.

Ingestion: Do not induce vomiting. Immediately call Poison Control Center or physician for guidance. Never give anything by mouth if patient is unconscious. Obtain medical attention immediately.

ADDITIONAL INFORMATION

The information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all - inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

No warranty of any kind is given or implied. Armacell LLC, will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein. This Material Safety Data Sheet is valid for three (3) years.

SECTION IX - PREPARATION DATE OF M.S.D.S.

PREPARED BY	TELEPHONE NUMBER	DATE
Michael Resetar	(919) 304-8908	September 1, 2009

ADDITIONAL NOTES OR REFERENCES:

Abbreviations:

- ACGIH = American Conference of Governmental Industrial Hygienists
- ASTM = American Society for Testing and Materials
- CPR = Controlled Product Regulations, Hazardous Product Act
- MSHA = Mine Safety and Health Administration
- NIOSH = National Institute of Safety and Health
- TLV = Threshold Limit Values
- TWA = Time Weighted Average

References:

1. Material Safety Data Sheets from raw materials' suppliers
2. ACGIH, Threshold Limit Values and Biological Exposure Indices for 1991 - 1992
3. The Sigma-Aldrich Library of Chemical Safety Data, Edition II, 1988.
4. N. Irving Sax, "Dangerous Properties of Industrial Materials", 7th edition, Van Nostrand Reinhold, 1984