

EXTENDING THE LIFE OF EXTRACTED NATURAL RESOURCES

**Flexisurf Material Safety Data Sheet**

**SECTION 1 - PRODUCT IDENTIFICATION & EMERGENCY INFORMATION**

SUPPLIER:	<b>YEMM &amp; HART LTD</b>	EMERGENCY TELEPHONE NO:	<b>573-783-5434</b>
CHEMICAL NAME:	<b>Polyvinyl chloride (PVC)</b>	REGULAR TELEPHONE NO:	<b>573-783-5434</b>
CHEMICAL FAMILY:	<b>Plasticized Polyvinyl chloride</b>	CAS NUMBER:	<b>N/A</b>
TRADE NAMES:	<b>Flexisurf</b>	PERCENTAGE (%):	<b>90</b>

**SECTION 2 - TYPICAL CHEMICAL & PHYSICAL PROPERTIES**

APPEARANCE:	<b>Waxy Solid</b>	ODOR:	<b>Mild characteristic odor</b>
BOILING POINT:	<b>N/A</b>	MELTING POINT:	<b>482° F (250° C)</b>
VAPOR PRESSURE - mm Hg 20C:	<b>N/A</b>	SPECIFIC GRAVITY gr/cc (WATER = 1):	<b>.97</b>
VAPOR DENSITY (AIR = 1):	<b>&gt;10</b>	PERCENT VOLATILE BY VOLUME (%):	<b>&lt;0.4</b>
SOLUBILITY IN WATER % BY WEIGHT:	<b>Insoluble</b>	EVAPORATION RATE (BUTYL ACETATE = 1):	<b>N/A</b>
FORMULA: <b>(CH<sub>2</sub>-CHCL)<sub>N</sub> Mixture</b>	pH: <b>N/A</b>	VOC:	<b>N/A</b>

**SECTION 3 - POTENTIALLY HAZARDOUS INGREDIENTS**

MATERIAL:	<b>N/A</b>	PERCENTAGE (%):	<b>N/A</b>	TLV-TWA VALUES ADOPTED BY ACGIH:	<b>N/A</b>
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**SECTION 4 - HEALTH HAZARD DATA**

EFFECTS OF OVEREXPOSURE: **Subjecting this material to temperatures above 250°F may liberate modest amounts of plasticizer. At temperatures above 400°F the product may decompose to CO, CO<sub>2</sub>, HCL and other gasses. This product contains 18-30% mixed phthalate esters. These plasticizers have low toxicity. ACGIH and OSHA have not established specific exposure limits for these plasticizers. Chemically similar plasticizers have ACGIH and OSHA exposure limits of: THRESHOLD LIMIT VALUE: 5 mg/m<sup>3</sup>, 8 hrs TWA**

**SECTION 5 - EMERGENCY FIRST AID PROCEDURES**

EYE CONTACT: **Flush thoroughly with water. If irritation persists, call a physician.**  
 SKIN CONTACT: **If hot material contacts skin, flush with cold water and secure treatment of thermal burn.**  
 INHALATION: **Problems not expected.**  
 INGESTION: **Problems not expected when ingested, if uncomfortable seek a physician.**

**SECTION 6 - FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT:	<b>440° F (227° C) (ASTM D56)</b>	AUTOIGNITION TEMPERATURE::	<b>440° F (227° C)</b>
FLAMMABLE LIMITS IN AIR % x VOLUME - LEL:	<b>N/A</b>	UEL:	<b>N/A</b>

EXTINGUISHING MEDIA: **Carbon dioxide, foam, dry chemical and water fog.**

SPECIAL FIRE FIGHTING PROCEDURES: **Water or foam may cause frothing. Use water to keep fire exposed materials cool. Use standard chemical fire fighting procedures. For fires in enclosed areas, firefighters must use self-contained breathing apparatus. Prevent fire control or dilution runoff from entering streams, sewers or drinking water supply.**

UNUSUAL FIRE AND EXPLOSION HAZARDS: **Exposure to fire can generate highly toxic fumes. Dust may be flammable when finely divided and suspended in the air.**

NFPA HAZARD ID:	HEALTH: <b>1</b>	FLAMMABILITY: <b>1</b>	REACTIVITY: <b>0</b>
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**SECTION 7 - REACTIVITY DATA**

STABILITY (THERMAL, LIGHT, ETC.) - STABLE:	<b>Yes</b>	UNSTABLE:	<b>No</b>	CONDITIONS TO AVOID:	<b>Extreme heat</b>
INCOMPATIBILITY (MATERIALS TO AVOID):	<b>Strong Oxidizers</b>				
HAZARDOUS DECOMPOSITION PRODUCTS:	<b>Carbon monoxide, carbon dioxide, hydrochloric acid</b>				
HAZARDOUS POLYMERIZATION - MAY OCCUR:	WILL NOT OCCUR:	<b>X</b>	CONDITIONS TO AVOID:	<b>None Known</b>	

**SECTION 8 - SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: **Sweep up and collect as harmless organic waste.**  
 WASTE DISPOSAL METHOD: **Recycle, landfill or incineration in accordance with regulations.**

**SECTION 9 - SPECIAL PROTECTION INFORMATION**

EYE PROTECTION: **When cutting, drilling or sanding** PROTECTIVE GLOVES: **When handling hot material**  
 RESPIRATORY PROTECTION (SPECIFY TYPE): **When cutting or sanding, approved dust respirators must be worn.**  
 VENTILATION: **Use adequate ventilation when cutting, sanding or welding.**  
 OTHER PROTECTIVE EQUIPMENT: **N/A**

**SECTION 10 - SPECIAL PRECAUTIONS**

HANDLING: **Thermo degradation products of PVC may include carbon monoxide, carbon dioxide, hydrochloric acid.**  
 STORAGE: **Store in a cool area.**  
 PRECAUTIONARY LABELING: **N/A**

**SECTION 11 - TOXICOLOGICAL DATA - Acute toxicology**

TOXICITY: ORAL (RATS), DERMAL (RABBITS), INHALATION (RATS): **Nontoxic - Based on testing of similar products and/or components.**  
 EYE & SKIN IRRITATION (RABBITS): **Non-irritating - Based on testing of similar products and/or components.**

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