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**Permanent Water Based Resist**

**SDS No: 881-888 Date: 04/08/16**

**1. Chemical, Product and Company Identification**

PRODUCT NAME: Permanent Water Based Resist  
 CATALOG CODES: JAC1, JAC2, JAC3 881-888  
 CAS#: NA  
 CI#: NA

**Toxicological Data on Ingredients:**

**2 Hazards Identification**

This material is not hazardous under the criteria of Federal OSHA hazard communication standard 29 CFR 1910 1200.

OTHER HAZARDS: No data available

**3. Composition and Information on Ingredients**

Composition:	CAS #	% by Weight
Potassium alumina silicates	< 5%	cas # 12001-26-2
Diethylaminoethanol	< .1%	cas # 100-37-8
Acrylic polymer (s)	>/= 22%	
Residual monomers	</= .02%	
Urethane resins	>/= 29%	
Propylene glycol	<1%	
Iron oxide	>/= .5%	
Titanium Dioxide	>/= .5%	

**4. First Aid Measures**

EYE CONTACT: Wash immediately with large amounts of water for 15 minutes. Get medical attention if necessary. Do not wear contact lenses while handling.

INGESTION: Dilute with water and get medical attention immediately. Do not induce vomiting.

INHALATION: Move to fresh air.

Aside from the information found under description of first aid measures and indication of immediate medical attention and special treatment needed any additional important information and effects are described in Section 11.

**Section 5: Fire and Explosion Data**

FLAMMABILITY OF THE PRODUCT: Not Flammable  
 AUTO-IGNITION TEMPERATURE: Unknown  
 FLASH POINTS: Not combustible

**Flammable Limits:**

PRODUCTS OF COMBUSTION: NA  
 FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES: NA  
 SPECIAL HAZARDS: (arising from the substance or mixture hazardous combustion products:) No data available  
 UNUSUAL FIRE/EXPLOSION HAZARDS: Material in liquid form can splatter above 100 degrees Celsius or 212 degrees Fahrenheit. dried product can burn.  
 SUITABLE EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.  
 UNSUITABLE EXTINGUISHING MEDIA: No data available.  
 ADVICE FOR FIREFIGHTERS  
 FIREFIGHTING PROCEDURES: No data available  
 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: Wear a self contained breathing apparatus and protective suit.

**Section 6: Accidental Release Measures**

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Use personal protective equipment. keep people away from the spill or leak. Material may cause slippery conditions.  
 ENVIRONMENTAL PRECAUTIONS: Caution keep spills and cleaning runoff out of municipal sewers and open bodies of water.  
 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP SPILLED PRODUCT: Contain the spill immediately with inert material such as kitty litter, sand or earth. Transfer the spilled paint and solid material to separate suitable containers for recovery or responsible disposal.

**Section 7: Handling and Storage**

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with eyes skin and clothing. Wash their release after handling. Keep jars and containers tightly closed when not in use.  
 CONDITIONS FOR SAFE STORAGE: Do not freeze. product stability will be affected. Stir or shake well before use.

## STORAGE STABILITY/STORAGE TEMPERATURE:

1 - 49 degrees Celsius 434 to 120 degrees Fahrenheit. Do not freeze. Formaldehyde may be generated under acidic conditions. maintain adequate ventilation under these conditions to prevent exposure to formaldehyde above the recommended ceiling of .3 ppm. acidic conditions will also affect stability of product. avoid acidic conditions for material.

**Section 8: Exposure Controls/Personal Protection**

PROTECTIVE MEASURES:	Facilities storing or utilizing this material and large volume should be equipped with an eyewash station.
INDIVIDUAL PROTECTION MEASURES/ EYE AND FACE PROTECTION:	Safety glasses with side shields.
SKIN AND HAND PROTECTION:	Gloves

**Section 9: Physical and Chemical Properties**

PHYSICAL STATE AND APPEARANCE:	Colored liquid. Low-medium viscosity liquid
ODOR:	slight acrylic odor
TASTE:	NA
MOLECULAR WEIGHT:	NA
COLOR:	see label color of product
pH (1% SOLN/WATER):	9.5
SPECIFIC GRAVITY:	1.2
RELATIVE DENSITY (WATER=1):	+/- 1.2
FREEZING POINT:	0 C/ 32 F
BOILING POINTS:	100 C/ 212F
MELTING POINT:	No data available
FLASH POINT:	Non-combustible
EVAPORATION RATE(BUTYL ECETATE = 1):	<1
FLAMMABILITY (SOLID, GAS):	NA
LOWER EXPLOSION LIMIT:	NA
UPPER EXPLOSION LIMIT:	NA
CRITICAL TEMPERATURE:	NA
VAPOR PRESSURE:	22.665 @ 20C water
VAPOR PRESSURE:	NA
VAPOR DENSITY:	NA
VOLATILITY:	< 30%
ODOR THRESHOLD:	NA
WATER/OIL DIST. COEFF:	NA
IONICITY (IN WATER):	Anionic
DISPERSION PROPERTIES:	Suspension
SOLUBILITY IN WATER:	Dilutable
AUTO IGNITION TEMP:	NA

DECOMPOSITION TEMP:	NA
VISCOSITY:	4000-46000cps
KINETIC VISCOSITY:	NA
EXPLOSIVE PROPERTIES:	NA
OXIDIZING PROPERTIES:	NA
MELEULAR WEIGHT:	NA

**Section 10: Stability and Reactivity Data**

REACTIVITY:	No data available
CHEMICAL STABILITY:	Stable
POSSIBILITY OF HAZARDOUS REACTIONS:	None known
CONDITIONS TO AVOID:	Product may undergo polymerization extreme cold or heat
INCOMPATIBLE MATERIALS:	Strong acids
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition may yield acrylic monomers

**Section 11: Toxicological Information**

SKIN CORROSION/IRRITATION:	Skin irritation may occur
SERIOUS EYE DAMAGE/IRRITATION:	No eye irritation
SENSITIZATION:	No data available
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY:	No data available
CARCINOGENICITY:	No data available
REPRODUCTIVE TOXICITY:	No data available
MUTAGENICITY:	No data available
ASPIRATION HAZARD:	No data available
COMPONENTS INFLUENCING TOXICOLOGY:	Residual Monomers
ACRYLIC POLYMERS:	Acute inhalation toxicity: The LC 50 has not been determined at this time.
RESIDUAL MONOMERS:	No information at this time.
ACUTE INHALATION TOXICITY:	The LC 50 has not been determined at this time.

**Section 12: Ecological Information**

GENERAL INFORMATION:	No information available at this time
ACRYLIC POLYMERS:	Acute toxicity to fish: no relevant data found
RESIDUAL MONOMERS:	Acute toxicity to fish: no relevant data found
PERSISTENCE AND DEGRADABILITY:	NA
ACRYLIC POLYMERS:	Biodegradabilty: no relevant data found
RESIDUAL MONOMERS:	NA
BIODEGRADABILTY:	No relevant data found
BIOACUMULATION POTENTIAL:	NA
ACRYLIC POLYMERS:	NA
BIOACUMULATION:	No relevant data found

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RESIDUAL MONOMERS: NA  
BIOACUMULATION: No relevant data found  
MOBILITY IN SOIL: No relevant data available

### Section 13: Disposal Considerations

WASTE DISPOSAL: Dispose in accordance with local regulation.

### Section 14: Transport Information

Not Regulated/Not dangerous according to the above specifications.

### Section 15: Other Regulatory Information

#### OSHA Hazard Communication Standard

This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200).

#### Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

#### Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This product does not contain any chemicals which are listed in Section 313 at or above de minimis concentrations.

#### Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103

Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

#### Pennsylvania

Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

#### United States TSCA Inventory (TSCA)

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

#### California Prop 65

This product does NOT contain any chemicals known to the state of California to cause cancer.

### Section 16: Other Information

The information contained in this SDS is based on data from sources considered to be reliable but Rupert, Gibbon & Spider Inc. does not guarantee the accuracy or completeness thereof. Rupert, Gibbon & Spider Inc. urges each customer or recipient of this SDS to study it carefully to become aware of and understand the hazards associated with this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology or fire and understand the data in this SDS.