

## Material Safety Data Sheet

**AquaVue™ WTJ**

**W - Silicone Urethane Hybrid Emulsion**

**T – Roll Coat, Curtain Coater and Spray**

**J – Ambient or Low Bake**

**Product Name:** AquaVue™ WTJ  
**Product Code:** WTJ Product Codes  
**Chemical Family:** Water Based Coating

### Section I – Identity

<b>Manufacturer's Name</b>	<b>Emergency Telephone Number</b>
Industrial Control Development, Inc.	(360) 546-2286
<b>Address</b>	<b>Telephone Number for Information</b>
13911 NW Third Court, Suite 100	(360) 546-2286
Vancouver, WA 98685-5701	<b>Date Prepared</b> 3/17/09

### Section II -- Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Names)	CAS Number	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
n-Methyl-2- Pyrrolidone	872-50-4			TWA 100 ppm	
Triethylamine (TEA)	121-44-8	25 ppm, 100 mg/m <sup>3</sup>	3 ppm		
N,N Dimethylethanolamine	108-01-0				
Sodium Sulfosuccinate	577-11-7				
Propylene Glycol	57-55-6			10 mg/ cu m 50 ppm	
2-Ethylhexanol	104-76-7				
Isopropyl Alcohol	67-63-0			200 ppm	
Poly(oxy-1,2-ethanediyl), a- (nonylphenyl)-w-hydroxy-, branched	68412-54-4				
Tetramethyl-5-decyne-4,7-diol, 2,4,7,9-,	126-86-3				
Butoxyethanol, 2	111-76-2				

### Section III – Physical/Chemical Characteristics

Physical Form	Liquid	Formula	
<b>Chemical Name</b>		<b>pH</b>	8-9
<b>Volatile (by weight %)</b>	30-70% depending on color	<b>V.O.C. Excluding water</b>	Less than 235 g/l or Less than 1.95 lbs/gal
<b>Viscosity Cps at 20°F</b>	Average 4,000	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	1.07-1.74 depending on color
<b>Boiling Point</b>	> 212°F	<b>Melting Point</b>	Not established
<b>Vapor Pressure (mm Hg. At 20°C)</b>	Not determined	<b>Evaporation Rate (Butyl Acetate = 1)</b>	Greater than 1.
<b>Vapor Density (AIR = 1)</b>	Heavier than	<b>Appearance and Odor</b>	Various colors; slight amine odor
<b>Solubility in Water:</b>	Soluble		

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### Section IV – Fire and Explosion Hazard Data

**Flash Point (Method Used):** N/A This is not a flammable product. **Flammable Limits** **LEL** 1.3% for solvent **UEL** 9.5% for solvent

**Extinguishing Media:** Dry chemical, carbon dioxide, foam, water.

**Special Fire Fighting Procedures:** Special contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

**Unusual Fire and Explosion Hazards:** Vapors are heavier than air and may travel a considerable distance to a source of ignition and flashback. Vapors of fumes may form explosive mixture with air.

**Thermal Decomposition:** Oxides of sulfur, oxides of sulfur, oxides of nitrogen, carbon monoxide, carbon dioxide, aldehydes, hydrogen cyanide, isocyanate, Isocyanic Acid, and other undetermined compounds

### Section V -- Reactivity Data

**Stability** **Unstable** **Conditions to Avoid:** Elevated Temperatures

**Stable** X

**Incompatibility (Materials to Avoid):** Strong oxidizing agents, water reactives.

**Conditions to avoid:** Protect from freezing, heat, sparks, and open flames

**Hazardous** Will Not Occur X

**Polymerization**

**Thermal Decomposition:** Oxides of sulfur, oxides of sulfur, oxides of nitrogen, carbon monoxide, carbon dioxide, aldehydes, hydrogen cyanide, isocyanate, Isocyanic Acid, and other undetermined compounds

### Section VI – Health Hazard Data

**Permissible concentrations (air)** (See Section II)

**Chronic effects of overexposure** See below

**Acute toxicological properties**

**Route(s) of Entry:** **Inhalation?** **Skin?** yes **Ingestion?** yes  
yes

**Health Hazards (Acute and Chronic)**

**Eyes:** Causes irritation with symptoms of reddening, tearing, stinging, and swelling.

**Inhalation:** May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose. Inhalation of the solvents may cause central nervous system depression with symptoms of nausea, lightheadedness, drowsiness, dizziness and loss of coordination.

**Ingestion:** Ingestion and /or vomiting may cause aspiration into the lungs resulting in chemical pneumonitis (inflammation of the lungs)

**Skin:** May cause slight irritation.

**Carcinogenicity:** **NTP?** No **IARC Monographs?** No **OSHA Regulated?** No

**Medical Conditions Generally Aggravated by Exposure:** Long term repeated exposure to this material can aggravate existing dermatitis, liver or kidney disease.

**Emergency and First Aid Procedures**

**Eyes:** Flush with lukewarm water and get medical attention if irritation develops.

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

**Skin contact:** Wash affected areas with soap and water. Immediately remove contaminated clothes.

Get medical attention if irritation develops or persists. Wash contaminated clothes before reuse.

**Inhalation:** remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

### Section VII – Precautions for Safe Handling and Use

**Steps to Be Taken in Case Material Is Released or Spilled:** Use absorbent material to collect and contain for salvage or disposal.

**Waste Disposal Method:** ICD suggests that all local, state, and federal regulations concerning health and pollution be reviewed to determine approved disposal procedures. Contact ICD if there are any disposal questions.

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**Precautions to Be Taken in Handling and Storing** Keep away from heat, sparks and open flames. Protect from freezing. Avoid contact with eyes and skin. Avoid inhalation of vapor or mists. Wash thoroughly after handling.

**Other Precautions** Store in cool, dry place, in an upright position, in original or similar waterproof containers. Avoid unnecessary contact. Do not breathe vapors or mists if generated.

### Section VIII – Control Measures

**Respiratory Protection (Specify Type):** Use of positive pressure supplied air respirator is mandatory when airborne concentration levels are not known, when levels are 10 times the appropriate TLV, or when spraying in confined spaces.

**Ventilation**            **Local Exhaust:** required

**Special** Curing ovens should be vented to prevent buildup of explosive atmosphere and to prevent gasses from entering the work place.

**Mechanical (General)**

**Other**

**Protective Gloves:** Permeation resistant gloves, butyl rubber, nitrile, or neoprene gloves.

**Eye Protection:** safety goggles or safety glasses with side shields.

**Other Protective Clothing or Equipment:** Impervious, protective clothing, if skin contact is likely.

### SECTION IX -- Transportation Data

<b>D.O.T.</b>	Not regulated
<b>Reportable Quantity</b>	(See Section II)
<b>Freight Classification</b>	Not regulated
<b>Special Transportation Notes</b>	Protect from freezing

### SECTION X -- Environmental/Safety Regulations

OSHA hazards Communication Standard (29 CFR 1910.1200)	Hazard Class(es) included on inventory	Canada (DSL) Europe (EINECS/ELINCS)
Federal EPA	Comprehensive Environmental Response Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4.	None
	Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312).	Acute health hazard, chronic health hazard
	Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDS's that are copied and distributed for this material.	n-Methyl-2- Pyrrolidone CAS 872-50-4
	Toxic Substances Control Act (TSCA) STATUS:	The ingredients of this product are on the TSCA inventory.
State Right-To-Know	California Proposition 65	See section II
	MASSACHUSETTS Right-To-Know, Substance list (MSL) Hazardous	n-Methyl-2- Pyrrolidone CAS 872-50-4

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Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

PENNSYLVANIA Right-To-Know, Hazardous Substance List Hazardous Substances and Special Hazardous Substances on the List must be identified when present in products. n-Methyl-2- Pyrrolidone CAS 872-50-4

**Prepared by** ICD – High Performance Coatings  
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**Date Sent**

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

NFPA HAZARD RATING	
4	Extreme
3	High
2	Moderate
1	Slight
0	Insignificant

Fires  
1

Toxicity 1                      0      Reactivity

Special

HMIS HAZARDOUS INDEX	
Hazardous	4 – Severe
Materials	3 – Serious
Identification	2 – Moderate
System	1 – Slight
	0 – Minimal

HMIS RATINGS	
Health	-----1
Flammability	-----1
Reactivity	-----0
Personal Protection	-----C
* See below for Code Table	

LETTER DESIGNATIONS OF PERSONAL PROTECTIVE EQUIPMENT	
Safety Glasses	A
Safety Glasses, Gloves	B
Safety Glasses, Gloves, Synthetic Apron	C
Face Shield, Gloves, Synthetic Apron	D
Safety Glasses, Gloves, Dust Respirator	E
Safety Glasses, Gloves, Synthetic Apron, Dust Respirator	F
Safety Glasses, Gloves, Vapor Respirator	G
Splash Goggles, Gloves, Synthetic Apron, Vapor Respirator	H
Safety Glasses, Gloves, Synthetic Dust and Vapor Respirator	I
Splash Goggles, Gloves, Synthetic Apron, Combination Dust and Vapor Respirator	J
Airline Hood or Mask, Gloves, Full Protective Suit , Boots	K
Situations Requiring Specialized Handling	X