


Material Safety Data Sheet

HMIS (U.S.A.)	HCS Risk Phrases	Protective Clothing								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #00b0f0; color: white; text-align: center;">Health Hazard</td> <td style="text-align: center; font-size: 24px; font-weight: bold;">1</td> </tr> <tr> <td style="background-color: #ff0000; color: white; text-align: center;">Fire Hazard</td> <td style="text-align: center; font-size: 24px; font-weight: bold;">0</td> </tr> <tr> <td style="background-color: #ffff00; text-align: center;">Reactivity</td> <td style="text-align: center; font-size: 24px; font-weight: bold;">0</td> </tr> <tr> <td style="text-align: center;">Personal Protection</td> <td style="text-align: center; font-size: 24px; font-weight: bold;">a</td> </tr> </table>	Health Hazard	1	Fire Hazard	0	Reactivity	0	Personal Protection	a	<p>Not controlled under the HCS (United States).</p>	
Health Hazard	1									
Fire Hazard	0									
Reactivity	0									
Personal Protection	a									

Section I. Chemical Product and Company Identification			
Common Name/ Trade Name	Craigbond 3291K	Code	3291K:MS
Supplier	Craig Adhesives & Coatings 80 Wheeler Point Rd. Newark, NJ 07105 (973) 344-1483	In case of Emergency	Craig: (973) 344-1483 Chemtec: (800) 424-9300
Synonym	Aqueous Laser Remoist		
Chemical Name	Water Based Adhesive		
Chemical Family	Compounded Synthetic Resin Emulsion		
Chemical Formula	Proprietary		
Manufacturer	Craig Adhesives & Coatings 80 Wheeler Point Rd. Newark, NJ 07105 (973) 344-1483	Material Uses	See Technical Data Sheet.

Section II. Hazardous Ingredients				
Name	CAS #	% by Weight	TLV/PEL	LC ₅₀ /LD ₅₀
No hazardous ingredient.				

Section III. Hazards Identification	
Potential Acute Health Effects	Non-corrosive for skin. Non-sensitizer for skin. Non-irritating to the eyes.
Potential Chronic Health Effects	<p>CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH, 2B (Possible for human.) by IARC [Vinyl acetate].</p> <p>MUTAGENIC EFFECTS: Not available.</p> <p>TERATOGENIC EFFECTS: Not available.</p> <p>DEVELOPMENTAL TOXICITY: Not toxic.</p> <p>Repeated or prolonged exposure is not known to aggravate medical condition.</p>

Section IV. First Aid Measures	
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact	Wash with soap and water. Get medical attention if irritation develops.
Hazardous Skin Contact	Not available.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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Hazardous Inhalation	No additional information.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Hazardous Ingestion	Not available.

Section V. Fire and Explosion Data

Auto-Ignition Temperature	The lowest known value is 370°C (698°F) (Glycerin).
Flash Points	The lowest known value is Closed cup: 199°C (390.2°F). (Pensky-Martens.). (Glycerin)
Flammable Limits	Not available.
Products of Combustion	Not applicable.
Fire Hazards in Presence of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	Explosive in the form of vapor when exposed to heat or flame. Vapor may travel considerable distance to source of ignition and flash back. When heated to decomposition, it emits acrid smoke and irritating fumes. (Methanol)
Special Remarks on Explosion Hazards	Not available.

Section VI. Accidental Release Measures

Small Spill	Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Neutralize the residue with a dilute solution of sodium carbonate. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section VII. Handling and Storage

Precautions	Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section VIII. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	Safety glasses. Lab coat.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	

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Not available.

Section IX. Physical and Chemical Properties

Physical state and appearance	Liquid. (Emulsion liquid.)	Odor	Slight.
pH(1% soln/water)	Acidic.	Color	White.
Boiling Point	The lowest known value is 100°C (212°F) (747:MS). Weighted average: 102.98°C (217.4°F)		
Melting Point	May start to solidify at 0°C (32°F) based on data for: 747:MS. Weighted average: 0°C (32°F)		
Specific Gravity	Weighted average: 1.08 (Water = 1)		
Vapor Pressure	The highest known value is 2.3 kPa (17 mmHg) (at 20°C) (747:MS). Weighted average: 2.3 kPa (17.25 mmHg) (at 20°C)		
Vapor Density	The highest known value is 3.1 (Air = 1) (Glycerin). Weighted average: 0.66 (Air = 1)		
Volatility	45% (v/v). (747:MS.)		
Odor Threshold	Not available.		
Evaporation rate	Greater than 1. (Glycerin) compared to Ether (anhydrous) = 1		
Viscosity	2300-2700 CPS (Brookfield, 20 rpm, #4 spindle, 77°F)		
Water/Oil Dist. Coeff.	Only soluble or dispersed in water.		
Solubility	Easily soluble in cold water, hot water.		

Section X. Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	No additional remark.
Incompatibility with various substances	Slightly reactive to reactive with oxidizing agents.
Corrosivity	Non-corrosive in presence of glass.
Special Remarks on Reactivity	No additional remark.
Special Remarks on Corrosivity	No additional remark.

Section XI. Toxicological Information

Routes of Entry	Not available.
Toxicity to Animals	Acute oral toxicity (LD50): 27200 mg/kg [Rat]. (Glycerin). Acute dermal toxicity (LD50): 10000 mg/kg [Rabbit]. (Glycerin).
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH, 2B (Possible for human.) by IARC [Vinyl acetate].
Other Toxic Effects on Humans	Non-corrosive for skin. Non-sensitizer for skin. Non-irritating to the eyes.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.

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Special Remarks on other Toxic Effects on Humans Not available.

Section XII. Ecological Information

Ecotoxicity Not available.

BOD5 and COD Not available.

Products of Biodegradation Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation No additional remark.

Section XIII. Disposal Considerations

Waste Disposal Recycle to process, if possible. Consult your local or regional authorities.

Section XIV. Transport Information

DOT Classification Not a DOT controlled material (United States).

Propper Shipping Name Not applicable.

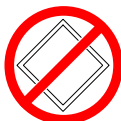
DOT Identification Number Not applicable.

Packing Group Not applicable.

Hazardous Sybstances Reportable Quantity Not available.

Special Provisions for Transport Not applicable.

DOT (Pictograms)



Section XV. Other Regulatory Information and Pictograms

Federal and State Regulations

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Acetaldehyde; Formaldehyde (gas); Lead

CERCLA: Hazardous substances.: Cupric Nitrate:

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 313 toxic chemical notification and release reporting: Mineral Spirits 0.336%; Vinyl acetate 0.12845%; Methanol 0.150574%

Massachusetts RTK: No products were found.

Pennsylvania RTK: Nitric acid; Magnesium salt

Florida: No products were found.

Minnesota: No products were found.

New Jersey: Magnesium nitrate;

Other Classifications

WHMIS (Canada) Class D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC) This product is not classified according to the EU regulations.

National Fire Protection Association (U.S.A.)

Health



Fire Hazard

Reactivity

Specific hazard

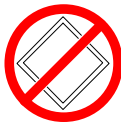
WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Section XVI. Other Information

Other Special Considerations

Information on Hazardous Ingredients is listed in Section II. Toxic chemicals at <1.0% and OSHA carcinogens at <0.1% are not specifically identified.

Validated by Craig Adhesives and Coatings on 6/22/2005.

Verified by Craig Adhesives and Coatings.

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