


# 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;">Health Hazard</td> <td style="text-align: center; font-weight: bold; font-size: 1.2em;">2</td> </tr> <tr> <td style="background-color: #ff0000; color: white;">Fire Hazard</td> <td style="text-align: center; font-weight: bold; font-size: 1.2em;">2</td> </tr> <tr> <td style="background-color: #ffff00;">Reactivity</td> <td style="text-align: center; font-weight: bold; font-size: 1.2em;">1</td> </tr> <tr> <td>Personal Protection</td> <td style="text-align: center; font-weight: bold; font-size: 1.2em;">a</td> </tr> </table>	Health Hazard	2	Fire Hazard	2	Reactivity	1	Personal Protection	a	HCS CLASS: Flammable liquid	
Health Hazard	2									
Fire Hazard	2									
Reactivity	1									
Personal Protection	a									

Section I. Chemical Product and Company Identification			
<b>Common Name/ Trade Name</b>	<b>Craigseal 2770A</b>	<b>Code</b>	2770A:WH
<b>Supplier</b>	Craig Adhesives & Coatings 80 Wheeler Point Rd. Newark, NJ 07105 (973) 344-1483	<b>In case of Emergency</b>	Craig: (973) 344-1483 Chemtrec: (800) 424-9300
<b>Synonym</b>	Gold Scratch-Off Coating		
<b>Chemical Name</b>	Solvent based pigmented coating.		
<b>Chemical Family</b>	Pigmented Polymer Dispersion		
<b>Chemical Formula</b>	Proprietary		
<b>Manufacturer</b>	Craig Adhesives & Coatings 80 Wheeler Point Rd. Newark, NJ 07105 (973) 344-1483	<b>Material Uses</b>	See Technical Data Sheet.

Section II. Hazardous Ingredients				
Name	CAS #	% by Weight	TLV/PEL	LC <sub>50</sub> /LD <sub>50</sub>
Solvent naphtha (petroleum), light aliphatic	8032-32-4	10-20	TWA: 400 (ppm) from ACGIH (TLV) TWA: 400 (ppm) from OSHA (PEL)	ORAL (LD50): Acute: 17500 mg/kg [Rat]. DERMAL (LD50): Acute: 3500 mg/kg [Rabbit]. VAPOR (LC50): Acute: 14000 ppm 4 hour(s) [Rat].
Light aromatic solvent naphtha (petroleum)	64742-95-6	10-20	TWA: 400 (ppm) from OSHA (PEL)	ORAL (LD50): Acute: 4000 mg/kg [Rat].
Copper	7440-50-8	20-40	TWA: 1 (mg/m <sup>3</sup> ) from ACGIH (TLV) TWA: 1 (mg/m <sup>3</sup> ) from OSHA (PEL)	Not available.
Zinc	7440-66-6	5-10	TWA: 10 (mg/m <sup>3</sup> ) from ACGIH (TLV) TWA: 10 (mg/m <sup>3</sup> ) from OSHA (PEL)	Not available.
Stoddard solvent	8052-41-3	1-5	TWA: 100 (ppm) from ACGIH (TLV) TWA: 100 (ppm) from OSHA (PEL)	Not available.
Quartz	14808-60-7	1-5	TWA: 0.1 (mg/m <sup>3</sup> ) from OSHA (PEL) INHALATION TWA: 0.1 (mg/m <sup>3</sup> ) from ACGIH (TLV) INHALATION	Not available.

**Continued on Next Page**

**Section III. Hazards Identification**

<b>Potential Acute Health Effects</b>	Hazardous in case of ingestion, of inhalation. Slightly dangerous to dangerous in case of skin contact (corrosive, irritant), of eye contact (irritant). non-sensitizer for skin
<b>Potential Chronic Health Effects</b>	Hazardous in case of inhalation. non-corrosive for skin non-irritant for skin non-sensitizer for skin non-permeator by skin Non-irritating to the eyes. Non-hazardous in case of ingestion. <b>CARCINOGENIC EFFECTS:</b> Not available. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Not available. <b>DEVELOPMENTAL TOXICITY:</b> Not available.

**Section IV. First Aid Measures**

<b>Eye Contact</b>	NO known EFFECT on eye contact, rinse with water for a few minutes.
<b>Skin Contact</b>	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
<b>Hazardous Skin Contact</b>	No additional information.
<b>Inhalation</b>	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
<b>Hazardous Inhalation</b>	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek medical attention.
<b>Ingestion</b>	DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
<b>Hazardous Ingestion</b>	No additional information.

**Section V. Fire and Explosion Data**

<b>Auto-Ignition Temperature</b>	The lowest known value is 210°C (410°F) (Stoddard solvent).
<b>Flash Points</b>	The lowest known value is CLOSED CUP: 13.889°C (57°F). (Solvent naphtha (petroleum), light aliphatic)
<b>Flammable Limits</b>	Not available.
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ). Some metallic oxides.
<b>Fire Hazards in Presence of Various Substances</b>	Highly flammable in presence of moisture. Flammable in presence of open flames and sparks, of heat, of reducing materials. Slightly flammable to flammable in presence of oxidizing materials. Non-flammable in presence of combustible materials.
<b>Explosion Hazards in Presence of Various Substances</b>	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. Slightly explosive in presence of oxidizing materials.
<b>Fire Fighting Media and Instructions</b>	Obtain advice on use of water. Use DRY chemicals, soda ash or lime. LARGE FIRE: DO NOT use water jet. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
<b>Special Remarks on Fire Hazards</b>	Fine powder forms flammable and explosive mixtures in air. (Aluminum)
<b>Special Remarks on Explosion Hazards</b>	No additional remark.

Continued on Next Page

**Section VI. Accidental Release Measures**

**Small Spill** Absorb with an inert material and put the spilled material in an appropriate waste disposal.

**Large Spill** Flammable liquid.  
Keep away from heat. Keep away from sources of ignition. Stop leak if without risk.

**Section VII. Handling and Storage**

**Precautions** Keep locked up. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label.

**Storage** Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Flammable materials should be stored away from extreme heat and away from strong oxidizing agents.

**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 threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.

**Personal Protection** Safety glasses. Lab coat. Vapor and dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Gloves. Wear appropriate respirator when ventilation is inadequate.

**Personal Protection in Case of a Large Spill** Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits**

**Xylene**  
TWA: 100 (ppm) from OSHA/NIOSH  
TWA: 100 STEL: 150 (ppm) from ACGIH

**Ethylbenzene**  
TWA: 100 (ppm) from OSHA/NIOSH  
TWA: 100 STEL: 125 (ppm) from ACGIH

**Light aromatic solvent naphtha (petroleum)**  
TWA: 400 (ppm) from OSHA/NIOSH

**Titanium dioxide**  
TWA: 10 (mg/m<sup>3</sup>) from ACGIH INHALATION  
TWA: 10 (mg/m<sup>3</sup>) from OSHA/NIOSH INHALATION

**4-methyl-2,6-di-tert-butyl-phenol**  
TWA: 10 (mg/m<sup>3</sup>) from ACGIH  
TWA: 10 (mg/m<sup>3</sup>) from OSHA

**Copper**  
TWA: 1 (mg/m<sup>3</sup>) from ACGIH  
TWA: 1 (mg/m<sup>3</sup>) from OSHA/NIOSH

**Zinc**  
TWA: 10 (mg/m<sup>3</sup>) from ACGIH  
TWA: 10 (mg/m<sup>3</sup>) from OSHA/NIOSH

**Aluminum**  
TWA: 15 (mg/m<sup>3</sup>) from OSHA/NIOSH  
TWA: 10 (mg/m<sup>3</sup>) from ACGIH

**Stoddard solvent**  
TWA: 100 (ppm) from ACGIH  
TWA: 100 (ppm) from OSHA/NIOSH

**Quartz**  
TWA: 0.1 (mg/m<sup>3</sup>) from OSHA/NIOSH INHALATION  
TWA: 0.1 (mg/m<sup>3</sup>) from ACGIH INHALATION

**Kaolin powder**  
TWA: 10 (mg/m<sup>3</sup>) from OSHA/NIOSH INHALATION

Consult local authorities for acceptable exposure limits.

**Section IX. Physical and Chemical Properties**

<b>Physical state and appearance</b>	Liquid.	<b>Odor</b>	Naphtha
pH(1% soln/water)	Not applicable.	<b>Color</b>	Gold
<b>Boiling Point</b>	The lowest known value is 157.22°C (315°F) (Stoddard solvent). Weighted average: 161°C (321.8°F)		
<b>Melting Point</b>	Not available.		
<b>Specific Gravity</b>	Weighted average: 1.93 (Water = 1)		
<b>Vapor Pressure</b>	The highest known value is 3.5 mm of Hg (@ 20°C) (Light aromatic solvent naphtha (petroleum)). Weighted average: 3.4 mm of Hg (@ 20°C)		
<b>Vapor Density</b>	The highest known value is 4.7 (Air = 1) (Stoddard solvent). Weighted average: 4.38 (Air = 1)		
<b>Volatility</b>	Not available.		
<b>Odor Threshold</b>	The highest known value is 1 ppm (Stoddard solvent)		
<b>Evaporation rate</b>	0.2 (Stoddard solvent). [Butyl acetate = 1]		
<b>Viscosity</b>	2000 CPS (Brookfield, 20 rpm, #4 spindle, 77°F)		
<b>Water/Oil Dist. Coeff.</b>	Not available.		
<b>Solubility</b>	Insoluble in cold water, hot water.		

**Section X. Stability and Reactivity Data**

<b>Stability</b>	The product is stable.
<b>Instability Temperature</b>	Not available.
<b>Conditions of Instability</b>	No additional remark.
<b>Incompatibility with various substances</b>	Reactive with oxidizing agents, reducing agents, metals, acids, alkalis. Slightly reactive to reactive with organic materials, moisture.
<b>Corrosivity</b>	Not considered to be corrosive for metals and glass according to our database.
<b>Special Remarks on Reactivity</b>	Air sensitive. (Aluminum)
<b>Special Remarks on Corrosivity</b>	No additional remark.

**Section XI. Toxicological Information**

<b>Routes of Entry</b>	Inhalation. Ingestion.
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 4000 mg/kg [Rat]. (Light aromatic solvent naphtha (petroleum)).
<b>Chronic Effects on Humans</b>	Not available.
<b>Other Toxic Effects on Humans</b>	Hazardous in case of ingestion, of inhalation. Slightly dangerous to dangerous in case of skin contact (corrosive, irritant), of eye contact (irritant). non-sensitizer for skin
<b>Special Remarks on Toxicity to Animals</b>	No additional remark.
<b>Special Remarks on Chronic Effects on Humans</b>	Human: passes through the placenta, excreted in maternal milk. (Copper)
<b>Special Remarks on other Toxic Effects on Humans</b>	Material is irritating to mucous membranes and upper respiratory tract. (Aluminum)

Continued on Next Page


**Section XII. Ecological Information**

<b>Ecotoxicity</b>	Not available.
<b>BOD5 and COD</b>	Not available.
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Toxicity of the Products of Biodegradation</b>	The products of degradation are less toxic than the product itself.
<b>Special Remarks on the Products of Biodegradation</b>	No additional remark.

**Section XIII. Disposal Considerations**

<b>Waste Disposal</b>	Recycle to process, if possible. Consult your local or regional authorities.
-----------------------	--

**Section XIV. Transport Information**

<b>DOT Classification</b>	DOT CLASS 3: Flammable liquid.
<b>Propper Shipping Name</b>	1263 Paints or Materials related to paints.
<b>DOT Identification Number</b>	UN1263
<b>Packing Group</b>	III IATA DGR 3.3.3 Determination Method
<b>Hazardous Sybstances Reportable Quantity</b>	Not available.
<b>Special Provisions for Transport</b>	No additional remark.
<b>DOT (Pictograms)</b>	

**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:

No products were found.

CERCLA hazardous substances:

**Xylene; Ethylbenzene;**

SARA 302/304/311/312 extremely hazardous substances:

No products were found.

SARA 313 toxic chemical notification and release reporting:

**Xylene; Ethylbenzene; Light aromatic solvent naphtha (petroleum); Copper; Zinc; Aluminum;**

Massachusetts RTK:

No products were found.

Pennsylvania RTK:

No products were found.

**Continued on Next Page**

Florida:

No products were found.

Minnesota:

No products were found.

New Jersey:

Product(s): Tetrakis(methylene(3,5-di-tert-butyl-4-hydroxyhydrocinnamate)), Quartz

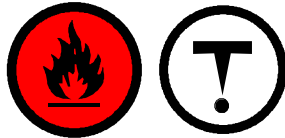
**Other Classifications**

<b>WHMIS (Canada)</b>	WHMIS CLASS D-2A: Material causing other toxic effects (VERY TOXIC). WHMIS CLASS B-2: Flammable liquid
<b>DSCL (EEC)</b>	R10- Flammable. R18- In use, may form flammable/explosive vapor-air mixture.

**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 4/5/2004.

Verified by Craig Adhesives and Coatings.

Printed 4/5/2004.

**Notice to Reader**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*