



**Micromeritics Instrument Corp. and Micromeritics Analytical Services**  
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 Surface Area - Porosity - Density - Particle Size, Shape & Count - Catalytic Activity - Surface Energy - Analytical Services

# Cover Sheet



INSTRUMENT CORPORATION  
 ONE MICROMERITICS DR.  
 NORCROSS, GA 30093-1877 U.S.A.

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B	Revision	JAP	6/25/04		040265	HR SIG	J. Mocny
A	Revision	MD	03/27/03	JM	030186	QA SIG	A. Dovin
-	Formal Release	C. Bills	9/21/01	JP	010472	ES SIG	K. Massengill
REV	REVISION DESCRIPTION	BY	DATE	CHK	REL. NO.		

## MSDS ADHESIVE STRUCT. SCOTCH-WELD

SIZE	NUMBER	PAGE
A	004/16171/00MSDS	X of 4

# Micromeritics Material Safety Data Sheet

Title : Adhesive Struct. Scotch-Weld  
Date of Preparation : 06/25/04

MSDS No. : 004/16171/00MSDS  
Revision : B

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Adhesive Struct. Scotch-Weld

**Chemical Formula:**

**CAS Number:** See Section II

<b>Supplier:</b> Micromeritics Instrument Corp. 1 Micromeritics Dr. Norcross, GA 30093-1877 USA	<b>Contact:</b> Human Resources Phone: (770) 662-3620 Fax: (770) 662-3696
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**Manufacturer:** 3M 3M Center, St. Paul, Mn 55144-1000 Phone: 1-800-364-3577 or (651) 737-6501 (24 Hrs).

## Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
Epoxy resin	25068-38-6	15.0-40.0
Aluminum pigments	7429-90-5	15.0-40.0
Synthetics elastomer – NC Trade Secret (T.S.) Registry No. 04499600-5709P	Trade Secret	5.0-10.0
Dicyandiamide	461-58-5	1.0-5.0
Epoxy Resin	41638-13-5	1.0-5.0
Para-Chlorophenol-Dimethylurea	150-69-5	1.0-5.0
Amorphous Silica	7631-86-9	1.0-5.0

The components of this product are in compliance with the chemical notification requirements of TSCA.

This product contains the following toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR Part 372:

Aluminum Pigments  
Para-Chlorophenol-Dimethylurea

## Section 3 - Hazards Identification

☆☆☆☆☆ **Emergency Overview** ☆☆☆☆☆

<b>HMIS</b>
<b>H 2</b>
<b>F 1</b>
<b>R 0</b>
<b>PPE†</b>
†Sec. 8

### Potential Health Effects

**Primary Entry Routes:** Skin

**Target Organs:**

**Acute Effects**

**Inhalation:** Irritation (upper respiratory): signs / symptoms can include soreness of the nose and throat, coughing and sneezing.

**Eye:** Severe eye irritation; signs / symptoms can include redness, swelling, pain, tearing, cloudy appearance of the cornea, impaired vision and possible permanently impaired vision.

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**Skin:** Allergic Skin Reaction: signs/symptoms can include redness, swelling, itching, and blistering.  
**Severe Skin Irritation (after prolonged or repeated contact):** signs/symptoms can include redness, swelling, itching, dryness, cracking, blistering and pain.  
**Ingestion:** Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.  
**Carcinogenicity:** Para-chlorophenol-dimethyl urea is not classifiable as to its carcinogenicity to humans (IRAC Group 3).  
Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system.

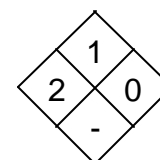
### Section 4 - First Aid Measures

**Inhalation:** If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.  
**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.  
**Skin Contact:** Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.  
**Ingestion:** Do not induce vomiting. Drink two glasses of water. Call a physician.

### Section 5 - Fire-Fighting Measures

**Flash Point:** > 340°F  
**Burning Rate:** N/A  
**Autoignition Temperature:** None determined  
**LEL:** N/A  
**UEL:** N/A  
**Flammability Classification:** 1  
**Extinguishing Media:** Water spray, carbon dioxide, dry chemical, foam.  
**Unusual Fire or Explosion Hazards:** None known.  
**Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide, aldehydes, oxides of cobalt.  
**Fire-Fighting Equipment:** Wear full protection clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed area of the head.

**NFPA**



### Section 6 - Accidental Release Measures

**Spill /Leak Procedures:**  
Observe precautions from other sections. Contain spill. Cover with absorbent material. Collect spilled material. Clean up residue with an appropriate organic solvent. Read and follow safety precautions on the solvent label and MSDS. Place in a closed container.

### Section 7 - Handling and Storage

**Handling Precautions:** Read and follow safety precautions on the solvent label and MSDS.  
**Storage Requirements:** Place in a closed container.

### Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:**  
**Ventilation:** Recommend Ventilation. Use with appropriate local exhaust ventilation. Provide appropriate local exhaust ventilation at transfer points. Provide appropriate local exhaust ventilation on open container. If exhaust ventilation is not adequate, use appropriate respiratory protection.  
**Administrative Controls:**

**Respiratory Protection:** Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations. Half-mask organic vapor respirator, full-face organic vapor respirator.

**Protective Clothing/Equipment:** Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following materials is recommended: neoprene, nitrile rubber.

**Eye Protection:** avoid eye contact. Wear unvented goggles during operations in which exposure is likely.

**Prevention of Accidental Ingestion:** Wash hands after handling and before eating. Do not ingest.

**Recommended Storage:** Store in a cool place. Store away from acids. Store away from heat. Store out of direct sunlight.

**Fire & Explosion Avoidance:** Keep container tightly closed. Keep away from heat, sparks, open flame, and other sources of ignition. No smoking while handling this material.

**Other Precautionary Information:**

For industrial or professional use only.

**Exposure Limits**

Ingredient	Value	Unit	Type	Auth	Skin
Epoxy Resin	None	None	None	None	
Aluminum Pigments	10	mg/m3	TWA	ACGIH	
Aluminum Pigments	15	mg/m3	TWA	OSHA	
		As total dust			
Aluminum Pigments	5	mg/m3	TWA	OSHA	
		Respirable			
Synthetic Elastomer – NJ Trade Secret (TS) Registry No. 04499600-570 <sub>p</sub>	None	None	None	None	
Dicyandiamide	None	None	None	None	
Epoxy Resin	None	None	None	None	
Para-Chlorphenol-Dimethylurea	None	None	None	None	
Amorphous Silica	3	mg/m3	TWA	CMRG	

**As Respirable Dust**

**\*Skin Notation:** Listed substances indicated with “y” under skin refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin adsorption.

**SOURCE OF EXPOSURE LIMIT DATA:**

- ACGIH: American Conference of Governmental Industrial Hygienist
- CMRG: Chemical Manufacturer Recommended Exposure Guidelines
- OSHA: Occupational Safety and Health Administration
- NONE: None established.

### Section 9 - Physical and Chemical Properties

<b>Physical State:</b> Paste	<b>Water Solubility:</b> Very Slight
<b>Appearance and Odor:</b> Paste, Gray, Epoxy odor.	<b>Other Solubilities:</b> N/A
<b>Odor Threshold:</b> N/A	<b>Boiling Point:</b> N/A
<b>Vapor Pressure:</b> N/A	<b>Freezing/Melting Point:</b> N/D
<b>Vapor Density (Air=1):</b> N/A	<b>Viscosity:</b> 780000 centipoise
<b>Formula Weight:</b> N/A	<b>Refractive Index:</b> N/A
<b>Density:</b> N/A	<b>Surface Tension:</b> N/A
<b>Specific Gravity (H<sub>2</sub>O=1, at 4 °C):</b> 1.5 water - 1	<b>% Volatile:</b> 0.0%
<b>pH:</b> N/A	<b>Evaporation Rate:</b> N/A

### Section 10 - Stability and Reactivity

**Stability:** 3M Scotch Weld Epoxy Adhesive is stable.  
**Polymerization:** Hazardous polymerization will not occur.  
**Chemical Incompatibilities:** N/A  
**Conditions to Avoid:** Heat, sparks and/or flames.  
**Hazardous Decomposition Products:** Carbon Monoxide and Carbon Dioxide, Aldehydes, Oxides of Cobal.

### Section 11- Toxicological Information

None available

### Section 12 - Ecological Information

**Ecotoxicity:** None available

### Section 13 - Disposal Considerations

**Disposal:** Cure product according to product instructions. Incinerate uncured waste in an industrial or commercial incinerator. Dispose of completely cured (or polymerized) material in a sanitary landfill.

### Section 14 - Transport Information

None available

### Section 15 - Regulatory Information

**Volatile Organic Compounds:** N/A  
**VOC Less H<sub>2</sub>O & exempt solvents:** N/D

Since regulations vary, consult applicable regulations or authorities before disposal. In the event of an uncontrolled release of this material, the user should determine if the release qualifies at a reportable quantity.

**US EPA Hazardous Waste Number = None Not US EPA Hazardous.**

**EPCRA Hazard Class:**

**Fire Hazard: No Pressure: No Reactivity: No Acute: Yes Chronic: Yes**

### Section 16 - Other Information

**Prepared By:** C. Bills

**Revision Notes:**

Section Change Dates:

**Physical Data**.....Section Changed since May 23, 2001

**ISGU**

Fire & Expl.....Section Changed since May 23, 2001

**ISGU**

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<b>Reactivity Data</b> .....	Section Changed since May 23, 2001	ISGU
<b>Environmental Info.</b> .....	Section Changed since May 23, 2001	<b>ISGU</b>
<b>Suggested First Aid</b> .....	Section Changed since May 23, 2001	ISGU
<b>Precautionary Info.</b> .....	Section Changed since May 23, 2001	ISGU
<b>Health Hazard Data</b> .....	Section Changed since May 23, 2001	ISGU

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