

F Form  
**Material Safety Data Sheet**



**Cover Sheet for Material Safety Data Sheet (MSDS)**  
**Epoxy Resin and Aliphatic Amine Curing Agent**  
**201Epoxy Aliph.doc**

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# Material Safety Data Sheet

**Product:** ECS 105-3, A & B

**Emergency Telephone: Day: 770-451-2777 Night: 800-457-4280**

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**Common Name** (Trade name and synonyms): ECS 105-3, A & B

**Chemical Name:** Epoxy Resin and Aliphatic Amine Curing Agent

**Chemical Family:** Epoxy; Amine

**CAS Number:** Mixture

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## **Section 1: Hazardous Ingredients**

<b><u>Component</u></b>	<b><u>%</u></b>	<b><u>ACGIH TLV</u></b>
A. Epoxy Resin with no established TLV	>90	
Titanium Dioxide (dispersed in resin)	<4	10 mg/m <sup>3</sup>
B: Diethylene Triamine (DETA)	35-45	1 ppm (skin)
Phenol	<2	5 ppm (skin)
Amines with no established TLV	35-45	
Hazards: Corrosive, irritant		
All ingredients are listed in the TSCA Inventory		

## **Section 2: Physical and Chemical Characteristics**

<b>Boiling Point</b> (°F):	>225°F	<b>Specific Gravity</b> (water=1):	1.00
<b>Vapor Pressure</b> (mm/Hg):	Nil	<b>Volatiles</b> (% by volume):	0
<b>Vapor Density</b> (Air=1):	>1	<b>Evaporation Rate</b> (BuAc =1)	>1
<b>Solubility in Water:</b>	Negligible		
<b>Appearance &amp; Odor:</b>	<b>A</b> White paste; characteristic odor		
	<b>B</b> : Black paste; ammoniacal odor		

## **Section 3: Fire and Explosion Data**

**Flash Point** (test method): >200°F (PMCC)

**Flammable Limits in Air** (% by Volume):      **Lel:**      N/A      **Uel:**      N/A

**Extinguishing Media:** \_\_\_\_\_ Water Spray, foam, CO<sub>2</sub>, dry chemical

**Special Fire Fighting Precautions/Procedures:** Avoid breathing smoke and vapors. In a confined area, use full fire fighting equipment including an approved self-contained breathing apparatus. Cool fire exposed containers with water.

**Unusual Fire and Explosion Hazards:**      None

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## Section 4: Health Hazard Information

**Threshold Limit value (TLV):** Not established

**ANSI Hazard Class:** A: 4 B: 4

**Signs and Symptoms of exposure:**

Type of Exposure	Comp	
Acute Overexposure	A	Moderately irritating to skin and eyes. Possible skin sensitizer.
	B	Vapors are irritating to skin and eyes
Chronic Overexposure	A	Pre-existing skin and eye disorders may be aggravated
	B	Unknown
<b>Routes of Exposure</b>		
Inhalation	A	Not likely to produce adverse effects due to low volatility
	B	Vapors are irritating to the skin and eyes
Ingestion	A	Low order of toxicity
	B	Moderate toxicity; may cause burns of mouth and throat
Skin Absorption	A	Not likely to be absorbed through the skin in toxic amounts
	B	Repeated or prolonged exposure may be harmful
Skin Contact	A	Moderately irritating; may cause skin sensitization
	B	May cause chemical burns and/ or develop allergic reaction
Eye Contact	A	Moderately irritating
	B	Moderately irritating; permanent damage possible on prolonged exposure
<b>Carcinogenicity</b>		
NTP	A	No
	B	No
IARC	A	No
	B	No
OSHA	A	No
	B	No

## Section 5: Emergency and First Aid Procedures

**Skin:** Remove contaminated clothing. Wash from skin with soap and water. Launder clothing prior to re-use.

**Eyes:** Flush with water for 15 minutes while holding the eyelids open. Get medical attention

**Inhalation:** Remove victim to fresh air. Administer oxygen if necessary.

**Ingestion:** Do not induce vomiting. Give large doses of water. Get medical attention.



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Section 9: SARA Title III Information (continued):

**Section 311: Hazardous Categorization**

<u>Acute</u>	<u>Chronic</u>	<u>Fire</u>	<u>Pressure</u>	<u>Reactive</u>	<u>Non-Applicable</u>
X	X				

**Section 313: Toxic Chemicals**

<u>Component</u>	<u>CAS #</u>	<u>%</u>
Phenol	108-95-2	<2

**Section 10: Special Precautions For Industrial Use only!**

**Warning Statements:** A: .May cause skin irritation; avoid contact with eyes.  
B: **Corrosive.** May cause severe eye burns.

**Precautions to be taken in Handling and Storage:**

A: Store in a cool, dry area in tightly closed containers. Avoid contact with skin and eyes. Use with adequate ventilation. Use good hygiene practices.

**Other Precautions:**

RCRA Status:	Not considered to be a hazardous waste
CERCLA:	Not listed
DOT Class:	A: Not regulated
	B: Corrosive Liquid, Basic, Organic, N.O.S., UN 3267

**Section 11: Miscellaneous**

	<u>HMIS Rating</u>	
	<u>A</u>	<u>B</u>
Health:	2	3
Flammability:	1	1
Reactivity:	0	0

This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1919,1200. The information contained herein is based on data available to us and is believed to be accurate. However, the Company makes no warranty expressed or implied concerning the accuracy of the information contained herein. It is the user's responsibility to determine the safety, toxicity and suitability of the product described herein. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist.

**Original Date:** 4/21/00      **Revision Date:**      **Revision Number:**