

24-Hour Emergency Phone: (800) 328-8501

Effective Date: 7/11/07

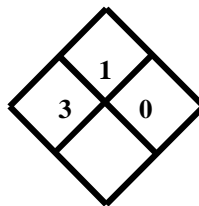
## Material Safety Data Sheet

MSDS No: 5628

**1. PRODUCT IDENTIFICATION**

Trade Name: Araldite 2013/B

Chemical Family: Amine



NFPA RATING

Health:	3
Flammability:	1
Reactivity:	0
Personal Protection:	

HMIS RATING

Intended Use or Product Type: Metal bonding adhesive hardener

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

O S H A	CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS				CARCINOGEN STATUS			
			ACGIH		OSHA		MFR.	IARC	NTP	OSHA
			TWA	STEL	PEL	STEL				
*	111-40-0 Common Name: Concentration	1,2-Ethanediamine, N-(2-aminoethyl)- Diethylenetriamine 5.00 - 10.00 % by wt	1 ppm	NE	NE	NE	NE	NR	NR	NR
*	68154-62-1 Common Name: Concentration	Fatty Acids, C18-Unsatd., Dimers, Polymers with Oleic Acid and Triethylenetetramine Reaction product of TETA, dimer fatty acid, and oleic acid 10.00 - 30.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	80-05-7 Common Name: Concentration	Phenol, 4,4'-(1-methylethylidene)bis-  Bisphenol A 1.00 - 5.00 % by wt	NE	NE	NE	NE	TLV 5 mg/m3	NR	NR	NR
	68955-48-6 Common Name: Concentration	Amides, from C18-Unsatd. Fatty Acid Dimers and Triethylenetetramine Reaction product of TETA and dimer fatty acid 30.00 - 60.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR

\* = OSHA Hazardous Ingredient

### 3. HAZARDS IDENTIFICATION

**Emergency Overview:** Corrosive - Causes skin and eye burns. May cause allergic skin and respiratory reactions.

**Primary Route(s) of Entry:** Dermal; heated product may produce inhalable vapors.

**Acute Exposure:** Corrosive. Causes skin and eye burns.

### 4. FIRST AID MEASURES

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

**Skin:** Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes. Seek immediate medical attention.

**Inhalation:** Remove to fresh air. Seek immediate medical attention.

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Seek immediate medical attention.

**Overexposure Effects:** Corrosive - causes skin and eye burns. May cause allergic skin and respiratory reaction.

**Medical Conditions Aggravated by Exposure:** Skin, eye and pulmonary conditions.

**Additional Information:** Referral to a physician is recommended if there is any question about the seriousness of any injury.

### 5. FIRE FIGHTING MEASURES

<b>Flash Point:</b>	255°F ( 124 °C)
<b>Flash Point Method Used:</b>	DIN 51584
<b>Flammable Limits in Air (Lower - % by volume):</b>	Not established
<b>Flammable Limits in Air (Upper - % by volume):</b>	Not established

**Fire Fighting Extinguishing Media:** Carbon dioxide, dry chemical, foam, water.

**Fire Fighting Equipment:** Use self-contained breathing apparatus.

**Fire and Explosion Hazards:** Decomposition and combustion products may be toxic.

### 6. ACCIDENTAL RELEASE MEASURES

**Accidental Release Measures:** Remove spillage by absorbing in absorbent material.

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## 7. HANDLING AND STORAGE

**Signal Word:** Danger!

**Precautions:** Corrosive - causes skin and eye burns. Can cause allergic respiratory reaction and allergic skin reaction. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or mist. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.

**Other Handling Information:** Nuisance dust may be generated when sanding or sawing cured material.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Skin Protection:** Wear impermeable gloves.

**Respiratory Protection:** Use NIOSH approved organic vapor cartridge respirator when vapor/mist exposure is likely.

**Eye Protection:** Wear splash-proof chemical goggles.

**Engineering Controls:** General mechanical and local exhaust in accordance with ACGIH recommendations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Color:</b>	Beige
<b>Odor:</b>	Slight Amine
<b>Odor Threshold:</b>	Not Determined
<b>Physical State:</b>	Thixotropic Liquid
<b>Solubility in Water:</b>	Practically Insoluble
<b>Vapor Pressure:</b>	~ 4 Pa at 20°C (68 °F)
<b>Specific Gravity:</b>	0.9 - 1 g/ml
<b>Boiling Point:</b>	Not Determined
<b>Melting Point:</b>	Not Determined
<b>Freezing Point:</b>	Not Determined
<b>Evaporation Rate:</b>	Not Determined
<b>Density:</b>	Not Determined
<b>Vapor Density:</b>	Not Determined
<b>VOC:</b>	64.926 g/L
<b>pH:</b>	12
<b>Coefficient of water/oil:</b>	Not Determined

**Percent Volatile:** Not determined.

## 10. STABILITY AND REACTIVITY

**Conditions to Avoid:** Excessive heat for prolonged periods of time.

**Stability:** Stable.

**Incompatibility:** Strong oxidizers, acids and bases.

**Hazardous Decomposition Products:** Combustion may form toxic materials, such as carbon dioxide, carbon monoxide.

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**Hazardous Polymerization:** Will not occur.**11. TOXICOLOGICAL INFORMATION****Sensitization:** May cause allergic skin reaction and respiratory sensitivity in some people.**Skin Irritation:** Corrosive. Causes burns.**Eye Irritation:** Corrosive. Causes burns.**12. ECOLOGICAL INFORMATION****13. DISPOSAL CONSIDERATIONS****Waste Disposal Method:** Consult qualified local or corporate personnel for method that will comply with local, state and federal health and environmental regulations.**14. TRANSPORT INFORMATION****DOT: Non-Bulk**

<b>Proper Shipping Name:</b>	Diethylenetriamine mixture
<b>Hazard Class:</b>	8
<b>ID Number:</b>	UN 2079
<b>Packing Group:</b>	PG II
<b>Label:</b>	Corrosive

**IATA: Non-Bulk**

<b>Proper Shipping Name:</b>	Diethylenetriamine Mixture
<b>Hazard Class:</b>	3
<b>ID Number:</b>	UN 2079
<b>Packing Group:</b>	PG II
<b>Label:</b>	Corrosive

**IMDG: Non-Bulk**

<b>Proper Shipping Name:</b>	Diethylenetriamine mixture
<b>Hazard Class:</b>	8
<b>ID Number:</b>	UN 2079
<b>Packing Group:</b>	PG II
<b>Label:</b>	Corrosive

**TDG: Non-Bulk**

<b>Proper Shipping Name:</b>	Diethylenetriamine mixture
<b>Hazard Class:</b>	8
<b>ID Number:</b>	UN 2079
<b>Packing Group:</b>	PG II
<b>Label:</b>	Corrosive

**15. REGULATORY INFORMATION**

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**US Federal Regulations:**

**Occupational Safety and Health Act (OSHA):** This product is considered to be a hazardous chemical under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Resource Conservation and Recovery Act (RCRA):** Not a hazardous waste under RCRA (40 CFR 261) but handle with care due to corrosive effect on skin and eyes.

**SARA Title III: Section 313 Toxic Chemical List (TCL):** This product contains a toxic chemical(s) for routine annual toxic chemical release reporting under section 313 (40 CFR 372). This information must be included in all MSDS's copied or distributed for this material.

Chemical Name: Phenol, 4,4'-(1-methylethylidene)bis-

Common Name: Bisphenol A

Percent in Composition: 1 - 5 % by wt

Comment:

**TSCA Section 8(b) - Inventory Status:** All chemical components of this product are in compliance with TSCA inventory requirements.

**TSCA Section 12(b) - Export Notification:** This product does not contain any chemical(s) that are subject to a Section 12(b) export notification.

**International Regulations:**

**Canadian Inventory Status:** This product contains only chemicals that are currently listed on the Canadian Domestic Substance List.

**Canadian WHMIS:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. D2A, D2B, E

**State Regulations:**

**California Proposition 65:** This product does not contain any chemicals currently on the California list of Known Carcinogens and Reproductive Toxins.

**Pennsylvania Right-to-Know:** The following is required composition information:

Chemical Name: Amides, from C18-Unsatd. Fatty Acid Dimers and Triethylenetetramine

Common Name: Reaction product of TETA and dimer fatty acid

CAS Number: 68955-48-6

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Ethene, homopolymer

CAS Number: 9002-88-4

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Fatty Acids, C18-Unsatd., Dimers, Polymers with Oleic Acid and Triethylenetetramine

Common Name: Reaction product of TETA, dimer fatty acid, and oleic acid

CAS Number: 68154-62-1

Comment: Not on Pennsylvania Hazardous Substance List

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Chemical Name: 1,2-Ethanediamine, N-(2-aminoethyl)-  
Common Name: Diethylenetriamine  
CAS Number: 111-40-0  
Comment: Hazardous Substance

Chemical Name: Phenol, 4,4'-(1-methylethylidene)bis-  
Common Name: Bisphenol A  
CAS Number: 80-05-7  
Comment: Environmental Hazardous Substance

Chemical Name: Silica  
Common Name: Fumed Silica  
CAS Number: 7631-86-9  
Comment: Hazardous Substance

## **16. OTHER INFORMATION**

**MSDS No:** 5628  
**Approved By:** Dianne Blessing  
**Title:** EHS Specialist

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