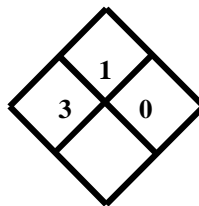


24-Hour Emergency Phone: (800) 328-8501

Effective Date: 7/11/07**Material Safety Data Sheet**

MSDS No: 5632

1. PRODUCT IDENTIFICATION**Trade Name:** Araldite 2015/B**Chemical Family:** Amine

NFPA RATING

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

HMIS RATING

Intended Use or Product Type: Toughened 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 3.00 - 7.00 % by wt	1 ppm	NE	NE	NE	NE	NR	NR	NR
*	112-24-3 Common Name: Concentration	1,2-Ethanediamine, N,N'-bis(2-aminoethyl)- Triethylenetetramine 0.10 - 1.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	140-31-8 Common Name: Concentration	1-Piperazineethanamine Aminoethylpiperazine 1.00 - 5.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	68610-56-0 Common Name: Concentration	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane, diethylenetriamine-terminated Amine adduct 1.00 - 5.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	68683-29-4 Common Name: Concentration	Pentanoic Acid, 4,4'-Azobis(4-Cyano-, polymer with 1,3-Butadiene, 1-Piperazine Ethanamine and 2-Propenenitrile) Synthetic Rubber 10.00 - 30.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR
*	68910-93-0	Fatty acids, tall-oil, reaction	NE	NE	NE	NE	NE	NR	NR	NR

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	Common Name: Concentration	products with polyethylenepolyamines Aliphatic polyaminoamide 5.00 - 10.00 % by wt								
*	90-72-2 Common Name: Concentration	Phenol, 2,4,6-tris[(dimethylamino)methyl]- 2,4,6-tris(Dimethylaminomethyl)phenol 1.00 - 5.00 % by wt	NE	NE	NE	NE	TLV 5 ppm	NR	NR	NR
*	38640-62-9 Common Name: Concentration	Naphthalene, bis(1-methylethyl)- Diisopropylnaphthalene 7.00 - 13.00 % by wt	NE	NE	NE	NE	NE	NR	NR	NR

NE = Not Established NR = Not Reviewed * = OSHA Hazardous Ingredient

3. HAZARDS IDENTIFICATION

Emergency Overview: Corrosive - causes skin and eye burns. Causes irritation if inhaled and can cause allergic respiratory reaction and allergic skin reaction. Can be harmful if absorbed through skin and may be harmful if swallowed.

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

Acute Exposure: Corrosive. Causes skin and eye burns.

Chronic: Overexposure may have effects on developing fetus.

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. Causes irritation if inhaled and can cause allergic respiratory reaction and allergic skin reaction. Can be harmful if absorbed through skin and may be harmful if swallowed.

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

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Flash Point:	> 200°F (> 93 °C)
Flash Point Method Used:	Estimated
Flammable Limits in Air (Lower - % by volume):	Not established
Flammable Limits in Air (Upper - % by volume):	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.

7. HANDLING AND STORAGE

Signal Word: Danger!

Precautions: Corrosive - causes skin and eye burns. Causes irritation if inhaled and can cause allergic respiratory reaction and allergic skin reaction. Can be harmful if absorbed through skin and may be harmful if swallowed. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or mist. Avoid tasting or swallowing. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling. Notice! Overexposure may have effects on developing fetus.

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

Color:	Caramel Color
Odor:	Ammoniacal
Physical State:	Thixotropic Paste
Solubility in Water:	psi Not Determined
Vapor Pressure:	Not Determined
Specific Gravity:	1.381 g/ml (water = 1)
Boiling Point:	Not Determined
Melting Point:	Not Determined
Evaporation Rate:	Not Determined
Density:	Not Determined
Vapor Density:	Not Determined

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VOC: 87.849 g/L
pH: Not Determined
Coefficient of water/oil: 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.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral Effects (LD50): Component(s) are slightly toxic, 500 - 5000 mg/kg (rat).

Diethylenetriamine= 1080 - 2330 mg/kg (rat)

Aminoethylpiperazine= 2140 mg/kg (rat)

Diisopropylnaphthalene= >3900 mg/kg (rat)

Acute Dermal Toxicity (LD50): Component(s) are toxic, 200 - 1000 mg/kg (rabbit).

Diethylenetriamine= 672 - 1240 mg/kg (rabbit)

Aminoethylpiperazine= 880 mg/kg (rabbit)

Acute Inhalation Exposure Effects: Respiratory irritant.

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

Proper Shipping Name:

Polyamines, liquid, corrosive, n.o.s.

Technical Shipping Name (If n.o.s.):

Diethylene triamine, Aliphatic polyaminoamide

Effective Date: 7/11/07

Hazard Class:	8
ID Number:	UN 2735
Packing Group:	PG II
Label:	Corrosive
IATA: Non-Bulk	
Proper Shipping Name:	Polyamines, liquid, corrosive, N.O.S.
Technical Shipping Name (If n.o.s.):	Diethylene triamine, Aliphatic polyaminoamide
Hazard Class:	8
ID Number:	UN 2735
Packing Group:	PG II
Label:	Corrosive
IMDG: Non-Bulk	
Proper Shipping Name:	Polyamines, liquid, corrosive, N.O.S.
Technical Shipping Name (If n.o.s.):	Diethylene triamine, Aliphatic polyaminoamide
Hazard Class:	8
ID Number:	UN 2735
Packing Group:	PG II
Label:	Corrosive
TDG: Non-Bulk	
Proper Shipping Name:	Polyamines, liquid, corrosive, N.O.S.
Technical Shipping Name (If n.o.s.):	Diethylene triamine, Aliphatic polyaminoamide
Hazard Class:	8
ID Number:	UN 2735
Packing Group:	PG II
Label:	Corrosive

15. REGULATORY INFORMATION

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 does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372).

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.

Effective Date: 7/11/07

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. D1B D2A D2B E

State Regulations:

California Proposition 65: The following is required composition information. This product contains the following chemical(s) which are currently listed on the California list of Known Carcinogens and Reproductive Toxins:

Chemical Name: Quartz (SiO₂)
Common Name: Crystalline silica
CAS Number: 14808-60-7
Percent in Composition: 0.0371 % by wt
Comment: Warning! This chemical is known to the State of California to cause cancer.

Chemical Name: Benzene, methyl-
Common Name: Toluene
CAS Number: 108-88-3
Percent in Composition: 0 % by wt
Comment: Warning! This chemical is known to the State of California to cause birth defects or other reproductive harm.

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

Chemical Name: Sulfuric acid, barium salt (1:1)
Common Name: Barium Sulfate
CAS Number: 7727-43-7
Comment: Hazardous Substance

Chemical Name: Pentanoic Acid, 4,4'-Azobis(4-Cyano-, polymer with 1,3-Butadiene, 1-Piperazine Ethanamine and 2-Propenenitrile)
Common Name: Synthetic Rubber
CAS Number: 68683-29-4
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Naphthalene, bis(1-methylethyl)-
Common Name: Diisopropylnaphthalene
CAS Number: 38640-62-9
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Fatty acids, tall-oil, reaction products with polyethylenepolyamines
Common Name: Aliphatic polyaminoamide
CAS Number: 68910-93-0
Comment: Not on Pennsylvania Hazardous Substance List

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

Chemical Name: 1-Piperazineethanamine
Common Name: Aminoethylpiperazine
CAS Number: 140-31-8
Comment: Hazardous Substance

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16. OTHER INFORMATION

MSDS No: 5632
Approved By: Dianne Blessing
Title: EH&S Specialist

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