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Effective Date: 7/25/07 **Material Safety Data Sheet**

MSDS No: 5624

1. PRODUCT IDENTIFICATION

Trade Name: Araldite 2011/B

Chemical Family: Polyamide/Amine



Health:	2
Flammability:	1
Reactivity:	0
Personal Protection:	

NFPA RATING

HMIS RATING

Intended Use or Product Type: Epoxy adhesive hardener

2. COMPOSITION / INFORMATION ON INGREDIENTS

O S	CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS						CARCINOGEN STATUS		
H			ACGIH		OSHA		MFR.	IARC	NTP	OSHA	
A			TWA	STEL	PEL	STEL					
*	10563-29-8	1,3-Propanediamine, N'-(3-aminopropyl)-N,N-dimethyl-	NE	NE	NE	NE	NE	NR	NR	NR	
	Common	Dimethylene Propylene Triamine									
	Name:										
	Concentration	5.00 - 10.00 % by wt									
*	68154-62-1	Fatty Acids, C18-Unsatd., Dimers, Polymers with Oleic Acid and Triethylenetetramine	NE	NE	NE	NE	NE	NR	NR	NR	
	Common	Reaction product of TETA, dimer									
	Name:	fatty acid, and oleic acid									
	Concentration	60.00 - 100.00 % by wt									

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

3. HAZARDS IDENTIFICATION

Emergency Overview: Causes skin and eye irritation. May cause allergic skin reaction.

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

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.

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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: Causes skin and eye irritation. May cause allergic skin reaction.

Medical Conditions Aggravated by Exposure: Skin and eye conditions.

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

5. FIRE FIGHTING MEASURES

Flash Point: $> 200^{\circ} \text{F} (> 93^{\circ} \text{C})$

Flash Point Method Used: PMCC

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: Warning!

Precautions: Can cause skin irritation, eye irritation, and allergic skin reaction. Avoid contact with eyes, skin, and clothing. 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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Color: Light Yellow Odor: Slight Physical State: Liquid

Solubility in Water:Practically InsolubleVapor Pressure:Not DeterminedSpecific Gravity:0.9 - 1 (water = 1)Boiling Point:Not DeterminedMelting Point:Not DeterminedEvaporation Rate:Not Determined

Density: 0.95 g/cm3 at 25°C (77 °F)

Vapor Density: Not Determined

VOC: 0 g/L

pH: Not DeterminedCoefficient 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 and acids.

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

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Sensitization: Possible in susceptible individuals.

Skin Irritation: Irritant.

Eye Irritation: Irritant.

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

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Araldite 2011/B **Huntsman Advanced Materials**

Effective Date: 7/25/07 Americas Inc. (EL)

DOT: Non-Bulk

Proper Shipping Name: Not Regulated

IATA: Non-Bulk

Proper Shipping Name: Not Regulated

IMDG: Non-Bulk

Proper Shipping Name: Not Regulated

TDG: Non-Bulk

Not Regulated **Proper Shipping Name:**

15. REGULATORY INFORMATION

US Federal Regulations:

Occupational Safety and Health Act (OSHA): This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261).

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.

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. D2B

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: 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

Chemical Name: 1,3-Propanediamine, N'-(3-aminopropyl)-N,N-dimethyl-

Common Name: Dimethylene Propylene Triamine

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Huntsman Advanced Materials Americas Inc. (EL)

CAS Number: 10563-29-8

Effective Date: 7/25/07

Comment: Not on Pennsylvania Hazardous Substance List

16. OTHER INFORMATION

MSDS No: 5624

Approved By:Dianne BlessingTitle:EH&S Specialist

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