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Effective Date: 9/10/08

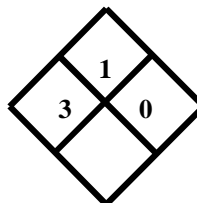
Material Safety Data Sheet

MSDS No: 30651

1. PRODUCT IDENTIFICATION

Trade Name: Aradur 8606

Chemical Family: Amine



NFPA RATING

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

HMIS RATING

Synonyms:

Ren 8606
Resinfusion 8606 Hardener

Intended Use or Product Type: resin 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				
*	6864-37-5	Cyclohexanamine, 4,4'-methylenebis[2-methyl-4,4'-Methylenebis(2-methylcyclohexanamine)]	NE	NE	NE	NE	NE	NR	NR	NR
	7732-18-5	Water	NE	NE	NE	NE	NE	NR	NR	NR

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

3. HAZARDS IDENTIFICATION

Emergency Overview: Highly toxic by inhalation. Toxic by dermal contact or ingestion. Corrosive. Severe eye, skin and respiratory irritant.

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

Potential Health Effects: Highly toxic by inhalation. Toxic by ingestion or dermal contact. Harmful if inhaled, may cause delayed lung injury. Delayed adverse effects possible. Inhalation of aerosol may cause upper respiratory tract irritation. Can cause severe eye, skin and respiratory tract burns.

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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. Poison - can be fatal if inhaled, if absorbed through skin, or if swallowed. Can cause allergic respiratory reaction and 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: 140°C (284 °F)

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! Corrosive. Toxic.

Precautions: Highly toxic by inhalation. Toxic by dermal contact or ingestion. Corrosive. Severe eye, skin and respiratory irritant.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment: Wear protective equipment to prevent contact with skin and eyes. Impervious apron and full face shield recommended.

Exposure Guidelines: Wash thoroughly after handling and before eating, drinking, or using tobacco products.

Skin Protection: Wear impermeable gloves.

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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:	Amber
Odor:	Amine
Physical State:	Liquid
Solubility in Water:	Slight
Vapor Pressure:	0.1 mm Hg
Specific Gravity:	0.95 (water = 1)
Boiling Point:	> 100°C (> 212 °F)
Evaporation Rate:	Not Determined
Vapor Density:	30.1
pH:	11
Coefficient of water/oil:	Not Determined
Molecular Weight:	238

Percent Volatile: Negligible.

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): Cyclohexanamine, 4,4'-methylenebis[2-methyl- = 320 - 460 mg/kg (rat)

Acute Dermal Toxicity (LD50): Cyclohexanamine, 4,4'-methylenebis[2-methyl- = 200 - 400 mg/kg (rabbit)

Inhalation Toxicity (LC50): Cyclohexanamine, 4,4'-methylenebis[2-methyl- = 0.42 mg/l (rat) (4 hr.)

Skin Irritation: Corrosive. Causes burns.

Eye Irritation: Corrosive. Causes burns.

12. ECOLOGICAL INFORMATION

Aquatic and Terrestrial Plant Toxicity: LC50 (96 Hr) = 22-45 mg/l (Golden orfe (Leuciscus idus))

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EC50 (50 Hr) = 15.2 mg/l (Daphnia)
EC50 (72 Hr) = 2.1 mg/l (Scenedesmus subspicatus)

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:	Corrosive liquids, toxic, n.o.s.
Technical Shipping Name (If n.o.s.):	Cyclohexaneamine, 4,4'-methylenebis (2-methyl)-
Hazard Class:	8 (6.1)
ID Number:	UN 2922
Packing Group:	PG II
Label:	Corrosive & Toxic

IATA: Non-Bulk

Proper Shipping Name:	Corrosive liquids, toxic, n.o.s.
Technical Shipping Name (If n.o.s.):	Cyclohexaneamine, 4,4'-methylenebis (2-methyl)-
Hazard Class:	8 (6.1)
ID Number:	UN 2922
Packing Group:	PG II
Label:	Corrosive & Toxic

IMDG: Non-Bulk

Proper Shipping Name:	Corrosive liquids, toxic, n.o.s.
Technical Shipping Name (If n.o.s.):	Cyclohexaneamine, 4,4'-methylenebis (2-methyl)-
Hazard Class:	8 (6.1)
ID Number:	UN 2922
Packing Group:	PG II
Label:	Corrosive & Toxic

TDG: Non-Bulk

Proper Shipping Name:	Corrosive liquids, toxic, n.o.s.
Technical Shipping Name (If n.o.s.):	Cyclohexaneamine, 4,4'-methylenebis (2-methyl)-
Hazard Class:	8 (6.1)
ID Number:	UN 2922
Packing Group:	PG II
Label:	Corrosive & Toxic

Department of Transportation: Packing Group assignment based on corrosivity testing.

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.

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Resource Conservation and Recovery Act (RCRA): This product is not considered to be a P or U listed hazardous waste under RCRA (40 CFR 261).

SARA Title III: Section 311/312 - Hazard Communication Standard (HCS): Acute Health Hazard

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:

Australian Inventory Status: This product contains only chemicals which are currently listed on the Australian Inventory of Chemical Substances.

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. D1B, D2A, D2B, E

European Inventory Status (EINECS): This product contains only chemicals that are currently listed on the European Inventory of Existing Commercial Chemical Substances (EINECS).

Japanese Inventory Status: This product contains only chemicals currently listed on the Japanese Ministry of International Trade and Industry List of Existing and New Chemical Substances.

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: Cyclohexanamine, 4,4'-methylenebis[2-methyl-

Common Name: 4,4'-Methylenebis(2-methylcyclohexanamine)

CAS Number: 6864-37-5

Comment: Not on Pennsylvania Hazardous Substance List

16. OTHER INFORMATION

MSDS No:	30651
Reason Issued:	9/08 update hazards, WHMIS
Approved By:	Matt Austin
Title:	EHS Chemist

Other Information: S10020030 (S01)

Effective Date: 9/10/08

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