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**Material Safety Data Sheet**

## Cover Sheet for Material Safety Data Sheet

## Aliphatic Amine Curing Agent

## 201 AliphaticCA.doc

| CI | Chg. Index | Date | Owner | | Date | Name | Initials | Dept. | Doc. ID: |
|---|---|---|---|---|---|---|---|---|---|
| | 1.0 | 4/26/99 | P. Doucette | Created<br>Reviewed<br>Released | 4/26/99<br>4/27/99<br>4/27/99 | P. Doucette<br>P. Doucette<br>P. Doucette | PED<br>PED<br>PED | Quality<br>Quality<br>Quality | **F0201-03.doc** |
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# Material Safety Data Sheet

**Product: 359**

**Magnolia Plastics, Inc.**
**5547 Peachtree Industrial Boulevard**
**Chamblee, GA 30341**
**Emergency Telephone: Day: 770-451-2777 Night: 800-457-4280**
**Internet: http://www.magnapoxy.com**

**Common Name** (Trade name and synonyms)**:** **Curing Agent 359**

**Chemical Name:** Modified Aromatic Amine Curing Agent

**Chemical Family:** Amine

**CAS Number:** Mixture

## Section 1: Hazardous Ingredients

| Component | % | ACGIH TLV |
|---|---|---|
| 4, 4'-Methylene Dianiline (MDA) | 30-40 | 0.1 ppm (skin) |
| Diethylene Triamine (DETA) | 10-15 | 1 ppm (skin) |
| Phenol | 1-2 | 5 ppm (skin) |
| Amines with no established TLV | 40-50 | |
| Hazards: Corrosive, irritant | | |

All ingredients are listed in the TSCA Inventory.

## Section 2: Physical and Chemical Characteristics

**Boiling Point** (°F): >225°F
**Specific Gravity**(water=1) 1.11:
**Vapor Pressure** (mm/Hg): Nil
**Volatiles** (% by volume): 0
**Vapor Density** (Air=1): >1
**Evaporation Rate** (BuAc =1) : <1
**Solubility in Water:** Negligible
**Appearance & Odor:** Brown Liquid; 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, $CO_2$, dry chemical
**Special Fire Fighting Precautions/Procedures:** Avoid breathing smoke. In confined areas, full fire fighting equipment including a self-contained breathing apparatus. Cool fire exposed containers with water.

Unusual Fire and Explosion Hazards: None

**Section 4: Health Hazard Information**

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

**ANSI Hazard Class:** **6**

**Signs and Symptoms of exposure:**

| **Type of exposure** | **Signs and Symtopms of exposure** |
|---|---|
| *Acute Overexposure* | Corrosive. Extremely irritating to eyes and skin |
| *Chronic Overexposure* | May aggravate pre-existing eye and skin disorders |
| **Routes of Exposure** | |
| *Inhalation* | Vapors are irritating and may cause irritation of the respiratory tract |
| *Ingestion* | Moderate toxicity. May cause burns of the mouth and throat |
| *Skin Absorption* | Repeated or prolonged exposure may be harmful |
| *Skin Contact* | May cause chemical burns. May develop allergic skin reaction |
| *Eye contact* | Moderately irritating. Permanent Damage posdsible on prolonged exposure |
| **Carcinogenicity** | |
| *NTP* | Contains MDA |
| *IARC* | Contains MDA |
| *OSHA* | **Contains MDA** |

**Section 5: Emergency and First Aid Procedures**

Skin: Remove contaminated Clothing. Wash skin with soap and water. Launder clothing prior to re-use.
Eyes: Flush with water for 15 minutes while holding 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 6: Reactivity Data

**Stability:** **Stable:** **X**
**Conditions to Avoid:** None
**Incompatibility** (materials to avoid): Mineral or organic oxides; strong oxidizing agents
**Hazardous Decomposition Products:** Oxides of carbon and nitrogen
**Hazardous Polymerization:** **May Occur:** **Will Not Occur:** X
**Conditions to Avoid:** Large mixtures with epoxy resin in bulk. Curing process is exothermic.

## Section 7: Spill and Leak Procedures:

**Steps to be Taklen if Material is Spilled or** Released:
Avoid contact with liquid or vapors. Wipe with a cloth or collect on absorbent material.
Large Spills: Dike and contain. Pump or shovel into salvage vessels.
**Waste Disposal Method:** Cure with epoxy bury, the bury or incinerate. Remove salvage vessels to a waste disposal site operating in compliance with Federal, State and Local regulations.

## Section 8: Special Protection Information

**Respiratory Protection** (specific type): For excessive vapors or to maintain below TLV, a NIOSH approved respirator for organic vapors in compliance with 29 CFR 1910.134.

**Ventilation:** **Local Exhaust:** Yes
**Mechanical:** Yes
**Other:** As required
**Protective Gloves:** Impervious rubber
**Eye Protection:** Splash proof chemical goggles
**Other Protective Clothing or Equipment:** For prolonged exposure, impervious clothing and boots to minimize personal contact, Eye wash station. Safety shower.

## Section 9: SARA Title III Information

***Section 302/304: Extremely Hazardous Substance***

| Component | CAS # | % | RO (lbs) | TPO (lbs) |
|---|---|---|---|---|
| Phenol | 108-95-2 | 1-2 | 500 | 10, 000 |

***CERCLA Section 102 (a): Hazardous Substance***

| Component | CAS # | % | RO (lbs) |
|---|---|---|---|
| Phenol | 108-95-2 | 1-2 | 1000 |
| 4, 4''-Methylene Dianiline (MDA) | 101-77-9 | 30-40 | |

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**Section 9: SARA Title III Information (continued):**

***Section 311: Hazardous Categorization***

| Acute | Chronic | Fire | Pressure | Reactive | Non-Applicable |
|---|---|---|---|---|---|
| X | X | | | | |

***Section 313: Toxic Chemicals***

| Component | CAS # | % |
|---|---|---|
| Phenol | 108-95-2 | 1-2 |
| 4, 4-Methylene Dianiline (MDA) | 101-77-9 | 30-40 |

**Section 10: Special Precautions**

**Warning Statements:** **For Industrial Use Only! Contains MDA!**
**Corrosive:** May cause severe skin and eye burns.

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

Store in ta 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 a hazardous waste.
**CERCLA:** Not listed
**DOT Class:** Corrosive Liquid, Basic, Organic, N.O.S., UN 3267

**Section 11: Miscellaneous**

| | HMIS Rating |
|---|---|
| **Health:** | **4** |
| **Flammability:** | **1** |
| **Reactivity:** | **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, Magnolia Plastics, Inc. 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:** 12/17/85 **Revision Date:** 8/1/00 **Revision Number:** 8