# POLYAMIDE - AMINE RESIN
## SUPERWELD HARDENER COMPONENT
### MATERIAL SAFETY DATA SHEET

**02/05/00**

**MSDS PROVIDED BY:**
STOODY INDUSTRIAL AND WELDING SUPPLY, INC.
3316 National Ave., San Diego, CA 92113
Phone: (619) 234-6750

MILITARY EMERGENCY RESPONSE NUMBER 1 (800) 851-8061

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**DEPARTMENT OF LABOR AND INDUSTRIES**
**MATERIAL SAFETY DATA SHEET**
**INDUSTRIAL HYGIENE SECTION**
POB 207
OLYMPIA, WA 98504
(206) 753-6497

**COMPLIES WITH WAC 296-62-05413**

**REPARATION/REVISION DATE**
August 1992

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**SECTION I**

**MANUFACTURER’S NAME**
Titan Corporation

**ADDRESS (Number, Street, City, and ZIP Code)**
5629 208th St SW Lynnwood, WA 98036

**CHEMICAL NAME**
Polyamide - Amine Resin

**COMMON NAME**
SuperWeld Hardener Component

**CHEMICAL FAMILY**
Polyamide – Amine Resin

**FORMULA**
N/A

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**SECTION II HAZARDOUS INGREDIENTS**

<table>
<thead>
<tr>
<th>CHEMICAL AND COMMON NAME</th>
<th>%</th>
<th>PEL-WISHA/OSHA</th>
<th>TLV-ACGIH</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene Triamine (Deta)</td>
<td>2</td>
<td>None established</td>
<td>1ppm 4MG/M³</td>
<td></td>
</tr>
<tr>
<td>C.A.S. No.</td>
<td>111400</td>
<td></td>
<td></td>
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<tr>
<td>Fire Code Definition – Class IIIB</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Triethylene Tetramine</td>
<td>2</td>
<td>None established</td>
<td>None established</td>
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<tr>
<td>C.A.S. No.</td>
<td>112-24-3</td>
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<td>Fire Code Definition – Class IIIB</td>
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<td></td>
<td></td>
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<tr>
<td>Polyamide Resin</td>
<td>2</td>
<td>None established</td>
<td>None established</td>
<td></td>
</tr>
<tr>
<td>C.A.S. No.</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire Code Definition – Class IIIB</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyaliphatic Amine</td>
<td>7</td>
<td>None established</td>
<td>None established</td>
<td></td>
</tr>
<tr>
<td>C.A.S. No.</td>
<td>N/A</td>
<td></td>
<td></td>
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<tr>
<td>Fire Code Definition – Class IIIB</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**HMIS Rating**

- **Health:** 3
- **Reactivity:** 1
- **Fire:** 1
- **Special:** H

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**CARCINOGENIC INGREDIENTS**

<table>
<thead>
<tr>
<th>CHEMICAL AND COMMON NAME</th>
<th>%</th>
<th>REFERENCE SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
<td>NTP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WISHA/OSHA</td>
</tr>
</tbody>
</table>

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**F413-007-000 FORMERLY L1-413-7, MATERIAL SAFETY DATA SHEET 4-85 -933-**
POLYAMIDE - AMINE RESIN
SUPERWELD HARDENER COMPONENT
MATERIAL SAFETY DATA SHEET

SECTION III HEALTH HAZARD DATA

ACUTE HEALTH EFFECTS
EYES: May cause burns and irritation, especially in high concentrations.

SKIN: May cause burns and irritation, especially in high concentrations.

INHALATION: Can cause severe irritation of the respiratory tract if high concentrations of the vapors are inhaled.

INGESTION: Liquid causes severe damage to mucous membranes if swallowed.

CHRONIC HEALTH EFFECTS: Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic responses.

ROUTES OF ENTRY
Skin and ingestion

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
Not known

EMERGENCY AND FIRST AID PROCEDURES
EYES: Immediately flush with large amounts of water for at least 15 minutes lifting upper and lower lids occasionally. GET IMMEDIATE MEDICAL ATTENTION

SKIN: Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Launder clothing before re-use and discard contaminated leather articles.

INHALATION: Remove to fresh air if effects occur and administer oxygen if necessary. GET MEDICAL ATTENTION IF EFFECTS PERSIST.

INGESTION: DO NOT INDUCE VOMITING!!! This will cause further damage to the throat. Dilute by giving water or milk to drink if victim is conscious. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION IV CHEMICAL DATA

| BOILING POINT (°F) | > 405f | SPECIFIC GRAVITY (H₂O=1) | 1.3 |
| VAPOUR PRESSURE (mm Hg.) | Not determined | PERCENT VOLATILE BY VOLUME (%) | non-volatile |
| VAPOUR DENSITY (AIR=1) | Not determined | EVAPORATION RATE ( =1) | Not determined |

SOLUBILITY (Specify Solvents)
Not determined in water.

APPEARANCE AND ODOR
Grey putty. No distinguishing odor.
SECTION V PHYSICAL HAZARD DATA

<table>
<thead>
<tr>
<th>FLASH POINT (Method used)</th>
<th>LEL</th>
<th>UEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>320°F Closed cup</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

EXTINGUISHING MEDIA
Foam, Dry Chemicals, Carbon Dioxide

SPECIAL FIRE FIGHTING PROCEDURES
N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS
N/A

INCOMPATIBILITY (Materials to avoid)
Avoid contact with strong oxidizing agents, mineral acids, and epoxy resins under uncontrolled conditions.

HAZARDOUS DECOMPOSITION PRODUCTS
Carbon monoxide, carbon dioxide, and oxides of nitrogen

<table>
<thead>
<tr>
<th>HAZARDOUS POLYMERIZATION</th>
<th>CONDITIONS TO AVOID</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAY OCCUR</td>
<td></td>
</tr>
<tr>
<td>WILL NOT OCCUR</td>
<td>X</td>
</tr>
<tr>
<td>STABLE</td>
<td>N/A</td>
</tr>
</tbody>
</table>

SECTION VI SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Mix with absorbent material and dispose of as described below.

WASTE DISPOSAL METHOD
Incinerate or landfill according to local, state and federal regulations
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#### SECTION VII EXPOSURE CONTROL INFORMATION

**Respiratory Protection (Specify type)**
Local ventilation to control any vapor or odor.

<table>
<thead>
<tr>
<th>VENTILATION</th>
<th>LOCAL EXHAUST</th>
<th>SPECIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>To control vapor or odor.</td>
<td>N/A</td>
</tr>
<tr>
<td>MECHANICAL (General)</td>
<td>N/A</td>
<td>OTHER</td>
</tr>
</tbody>
</table>

**Protective Gloves**
Rubber neoprene or rubber

**Eye Protection**
Goggles with side shields

**Other Protective Equipment**
Aprons, etc., to prevent clothing or skin contact.

**Other Engineering Controls**
N/A

**Work Practices**
Work area clean, no skin contact as above.

**Hygienic Practices**
N/A

#### SECTION VIII SPECIAL PRECAUTIONS

**Precautions to be taken in Handling and Storing**
N/A

Section IX – Supplemental Information: DOT Proper Shipping Name: Corrosive Liquid N.O.S., DOT Hazard Class: Corrosive Material, DOT I.D. Number: UN1760

**Disclaimer:** The information contained herein is based on data considered to be accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable regarding all current regulations.

F413-007-000 MATERIAL SAFETY DATA SHEET 4-85 -933-C-