

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

02/05/00

MSDS PROVIDED BY:

STOODY INDUSTRIAL AND WELDING SUPPLY, INC.

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MILITARY EMERGENCY RESPONSE NUMBER 1 (800) 851-8061

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

MATERIAL SAFETY DATA SHEET

REPARATION/REVISION DATE

August 1992

COMPLIES WITH WAC 296-62-05413

SECTION I

MANUFACTURER'S NAME Titan Corporation	EMERGENCY TELEPHONE NO. 1-800-424-9300
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ADDRESS (Number, Street, City, and ZIP Code)
5629 208th St SW Lynnwood, WA 98036

CHEMICAL NAME Polyamide - Amine Resin	COMMON NAME SuperWeld Hardener Component
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CHEMICAL FAMILY Polyamide - Amine Resin	FORMULA N/A
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SECTION II HAZARDOUS INGREDIENTS

CHEMICAL AND COMMON NAME	%	APPLICABLE EXPOSURE LIMITS		
		PEL-WISHA/OSHA	TLV-ACGIH	OTHER
Diethylene Triamine (Deta)	20	None established	1ppm 4MG/M ³	
C.A.S. No. 111400				
Fire Code Definition - Class IIIB				
Triethylene Tetramine	2	None established	None established	
C.A.S. No. 112-24-3				
Fire Code Definition - Class IIIB				
Polyamide Resin	20	None established	None established	
C.A.S. No. N/A				
Fire Code Definition - Class IIIB				
Polyaliphatic Amine	7	None established	None established	
C.A.S. No. N/A				
Fire Code Definition - Class IIIB				
HMIS Rating				
Health 3		Reactivity 1		
Fire 1		Special H		

CARCINOGENIC INGREDIENTS

CHEMICAL AND COMMON NAME	%	REFERENCE SOURCE		
		NTP	IARC	WISHA/OSHA
N/A				

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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
VAPOR PRESSURE (mm Hg.)	Not determined	PERCENT VOLATILE BY VOLUME (%)	non-volatile
VAPOR 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.

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SECTION V PHYSICAL HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS)	Lel	Uel
320° F Closed cup		n/a	n/a

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

HAZARDOUS POLYMERIZATION	MAY OCCUR	CONDITIONS TO AVOID	
	WILL NOT OCCUR	X	N/A

STABILITY	UNSTABLE		
	STABLE	X	N/A

SECTION VI SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE METARIAL 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.

VENTILATION	LOCAL EXHAUST To control vapor or odor.	SPECIAL N/A
	MECHANICAL (General) N/A	OTHER N/A

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.

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