

# RAINBOW TECHNOLOGY CORPORATION

## MATERIAL SAFETY DATA SHEET

Effective Date      March 20, 2012

### Section 1 – Manufacturer Information

**Manufacturer/Distributor:**      Rainbow Technology Corporation 800.637.6047

**Contact Person:**                      Larry Joe Steeley, Jr.

**Emergency Phone # (24 HRS):**      Chem-Tel Inc. 800.255.3924

**Trade Name:**                              WELD-IT PART A Epoxy Resin

**Product Number:**                      79496

**Issue Date:**                                3.20.12

**Replaces MSDS Dated:**              12.21.11

### Section 2 – Composition / Information on Ingredients

Component Name	CAS Number	% by Weight
Bisphenol A Epoxy Resin	25068-38-6	50 to 80
Reinforcing Filler	Proprietary	20 to 40
Black Pigment	Proprietary	<1
Fumed Silica	112945-52-5	1 to 5

#### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

Component Name	Exposure Limits		
	ACGIH TLV	OSHA PEL	Other Recommended Limits
Bisphenol A Epoxy Resin	N.E.	N.E.	N.E.
Reinforcing Filler	N.E.	N.E.	N.E.
Black Pigment	N.E.	N.E.	N.E.
Fumed Silica	10mg/m <sup>3</sup>	6mg/m <sup>3</sup>	3mg/m <sup>3</sup>

### Section 3 – Hazard Identification

**Emergency Overview:**      Skin and eye irritant.

**Potential Health Effects:**

**Eyes:** Moderate eye irritant

**Skin:** Direct contact may cause moderate skin irritation. Prolonged or repeated contact may cause allergic skin reaction.

**Ingestion:** Not likely to occur.

**Inhalation:**      Moderate respiratory tract irritation.

**Conditions Aggravated By Exposure:**      Dermatitis

**Chronic Effects/Carcinogenicity:**      Detailed information provided in Section 11.

### Section 4 – First Aid Measures

**Health Hazards (Acute and Chronic):** Liquid contact with eyes or skin may cause irritation.

**Emergency and First Aid Procedures:**

**Inhalation:**      Remove to fresh air if irritation occurs.

**Eye Contact:**      Flush with water for 15 minutes with lids open. If irritation occurs, get medical attention.

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**Skin** Wash thoroughly with soap and water. Do not use organic solvent to clean the skin.**Contact:****Section 5 – Fire Fighting Measures****Flammable Properties:****Flash Point:** >200 ° F**Method:** PMCC**Flammable Limits:****Lower Flammability Limit:** N.E.**Upper Flammability Limit:** N.E.**Autoignition Temperature:** N.A.**Hazardous Combustion Products:** Irritating organic vapors.**Extinguishing Media:** Foam, Carbon Dioxide or Dry Chemical.**Fire Fighting Instructions:** Not Available.**Section 6 – Accidental Release Measures****Spill:** Dike area to prevent spreading.**Section 7 – Handling and Storage****Handling:** Avoid prolonged skin contact, keep away from eyes.**Storage:** Avoid storage over 100 ° F.**Section 8 – Exposure Controls/Personal Protection****Engineering Controls:** Not Available.**Respiratory Protection:** Information not available.**Protective Gloves:** Wear latex gloves.**Eye Protection:** Wear safety glasses with side shields.**Other Protective Clothing or Equipment:** Wear overalls or protection clothing.**Work/Hygienic Practices:** Wash thoroughly before eating or smoking.**Section 9 – Physical and Chemical Properties****Appearance:** Black Paste**Specific Gravity:** 1.48**Odor:** Mild Odor**Boiling Point:** N/A**Vapor Pressure:** No Data**Freezing Point:** N/A**Vapor Density:** No Data**Solubility(H<sub>2</sub>O):** Slight**Section 10 – Stability and Reactivity****Stability:** Stable**Conditions to avoid:** Heat

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**Incompatibility:** Amines**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, aldehydes, aromatic hydrocarbons.**Hazardous Polymerization:** None Known**Section 11 – Toxicological Information**

Ingredients	Carcinogen		
	NTP	IARC	OSHA
Bisphenol A Resin	No	NA	No
Reinforcing Resin	No	No	No
Black Pigment	No	No	No
Fumed Silica, Treated	No	No	No

Ingredients	Target Organ and Other Health Effects
Bisphenol A Resin	Irritant
Reinforcing Resin	Dust Nuisance
Black Pigment	No Data
Fumed Silica, Treated	Dust Nuisance

**Section 12 – Ecological Information**

None Available

**Section 13 – Disposal Information****Disposal Information** Incinerate according to EPA and local government regulation. Not a RCRA Hazardous Waste Material.**Section 14 – Transportation Information****DOT (49 CFR 172)**

**Proper Shipping Name:** Not Regulated  
**Identification Number:** None  
**Hazard Class:** None  
**Packing Group:** None

**INTERNATIONAL AIR TRANSPORTATION (IATA)**

**Proper Shipping Name:** Not Regulated  
**Identification Number:** None  
**Class/Division:** Not Regulated

**Section 15 – Regulatory Information** (Not meant to be all inclusive - selected regulations represented)**TSCA Listed:** All components are listed on Toxic Substance Control Act Inventory.**CERCLA:** (Comprehensive Emergency Response, Compensation and Liability Act): NA**SARA Title III: (Superfund Amendments and Reauthorization Act):** 313 Reportable Ingredients: None**Canadian Inventory Status:** Listed**California Proposition 65:** No Prop 65 hazard warning is needed.

**Section 16 – Other Information****HMIS – Hazardous Materials Identification System**

HMIS Rating	
Health	2
Fire	1
Reactivity	1
Personal Protection	B

**0 - minimal hazard, 1 - slight hazard, 2 - moderate hazard, 3 - serious hazard, 4 - severe hazard**

The information provided herein was believed to be accurate at the time of preparation and prepared from a compilation of sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of this product, and to determine the suitability of the product for its intended use.

Product No 79496 Part B

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## MATERIAL SAFETY DATA SHEET

Effective Date      March 20, 2012

### Section 1 – Manufacturer Information

**Manufacturer/Distributor:** Rainbow Technology Corporation 800.637.6047  
**Contact Person:** Larry Joe Steeley, Jr.  
**Emergency Phone # (24 HRS):** Chem-Tel Inc. 800.255.3924  
**Trade Name:** WELD-IT PART B Mercptan Epoxy Hardener  
**Product Number:** 79496  
**Issue Date:** 3.20.12.  
**Replaces MSDS Dated:** 12.21.11

### Section 2 – Composition / Information on Ingredients

Component Name	CAS Number	% by Weight
Mercaptan Terminated Polymer	Trade Secret	>90
Phenol 2 4, 6 Tris ((ddimethylamino) emethyl))	90-72-2	<10
Titanium Dioxide	13463-67-7	1 to 5
Fumed Silica	112945-52-5	1 to 5

#### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

Component Name	Exposure Limits		
	ACGIH TLV	OSHA PEL	Other Recommended Limits
Mercaptan Terminated Polymer	N.E.	N.E.	N.E.
Phenol 2 4, 6 Tris ((ddimethylamino) emethyl))	N.E.	N.E.	N.E.
Titanium Dioxide	N.E.	N.E.	N.E.
Fumed Silica	10mg/m3	6mg/m3	3mg/m3

### Section 3 – Hazard Identification

**Emergency Overview:** Severe eye and skin irritation or burns. White paste with strong mercaptan odor.

**Potential Health Effects:**

**Eyes:** Severe eye irritant

**Skin:** Direct contact may cause severe skin irritation or burns.

**Ingestion:** Can cause gastrointestinal irritation, nausea, vomiting.

**Inhalation:** Respiratory irritant.

**Medical Effects Generally Aggravated by Exposure:** None determined

**Chronic Effects/Carcinogenicity:** Not determined.

### Section 4 – First Aid Measures

**Emergency and First Aid Procedures:**

**Inhalation:** Remove to fresh air. If breathing has stopped or is labored, give assisted respiration. Seek medical advice.

**Eye Contact:** Flush with water for 15 minutes with lids open. If irritation persists, seek medical attention.

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- Skin Contact:** Remove contaminated clothing. Wash affected area with soap and water. Seek immediate medical attention.
- Ingestion:** Do not induce vomiting, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed. Do not give anything to an unconscious person.

## Section 5 – Fire Fighting Measures

### Flammable Properties:

**Flash Point:** >200° F

### Flammable Limits:

**Lower Flammability Limit:** No Data

**Upper Flammability Limit:** No Data

**Autoignition Temperature:** No Data

**Hazardous Combustion Products:** May generate toxic or irritating combustion products. Personnel in vicinity and down wind should be evacuated.

**Extinguishing Media:** Ignition will give rise to a class B fire. Use water spray, alcohol foam, carbon dioxide, dry chemical or dry sand.

**Fire Fighting Instructions:** Firefighters should wear butyl rubber boots, gloves and body suit and self-contained breathing apparatus.

## Section 6 – Accidental Release Measures

**Spill:** Remove any source of ignition. Stop the leak if possible. Ventilate the space involved. Construct a dike to prevent spreading. If recovery is not feasible, add mix with dry soil, sand or non reactive absorbent and place in an appropriate chemical waste container. Place in metal containers or recovery or disposal. Flush area with water spray.

## Section 7 – Handling and Storage

**Handling:** Wash thoroughly after handling, do not smoke when using. Product becomes slippery when wet.

**Storage:** Store in cool, dry place with adequate ventilation in closed containers. Emergency showers and eye wash stations should be readily accessible.

## Section 8 – Exposure Controls/Personal Protection

**Engineering Controls:** Local exhaust ventilation is always recommended when handling chemicals.

**Respiratory Protection:** Not required under normal conditions in a well ventilated workplace when used in small volumes. Use of a NIOS approved organic vapor respirator is recommended for emergency conditions.

**Skin Protection:** Impermeable gloves, long sleeved clothing.

**Eye Protection:** Splash proof eye goggles or full face shield.

**Other Protective Clothing or Equipment:** None

**Work/Hygienic Practices:** Wash thoroughly before eating or smoking.

**Section 9 – Physical and Chemical Properties**

<b>Vapor Pressure:</b>	No Data	<b>Vapor Density:</b>	N.A.
<b>Solubility (H<sub>2</sub>O):</b>	Slight	<b>Specific Gravity:</b>	1.45
<b>Boiling Point:</b>	No Data	<b>Freezing Point:</b>	N.A.
<b>Physical State:</b>	White Paste	<b>pH:</b>	Alkaline
<b>Odor:</b>	Mercaptan	<b>Appearance:</b>	White Paste
<b>VOC:</b>	N.A.		

**Section 10 – Stability and Reactivity**

<b>Stability:</b>	Stable
<b>Conditions to avoid:</b>	None Known
<b>Incompatibility:</b>	None Known
<b>Hazardous Decomposition Products:</b>	Irritating and toxic fumes at elevated temperatures.
<b>Hazardous Polymerization:</b>	Will not occur.

**Section 11 – Toxicological Information****PRODUCT TOXICOLOGY DATA:**

Ingredients	Carcinogen		
	NTP	IARC	OSHA
Mercaptan Polymer Blend	No	No	No
Phenol 2,4,6 tris ((ddimethylamino) emethyl)	No	No	No
Titanium dioxide	No	No	No
Fumed Silica, Treated	No	No	No

Ingredients	Target Organ and Other Health Effects
Mercaptan Polymer Blend	Irritant
Phenol 2,4,6 tris ((ddimethylamino) emethyl)	Irritant
Titanium dioxide	Irritant, dust nuisance
Fumed Silica, Treated	Dust Nuisance

**Section 12 – Ecological Information**

No Data

**Section 13 – Disposal Information****Disposal Information** Comply with all Federal, State and local regulations.**Section 14 – Transportation Information**

<b>DOT (49 CFR 172)</b>	
<b>Proper Shipping:</b>	Not Regulated
<b>Proper Shipping Name:</b>	None
<b>Identification Number:</b>	None
<b>Hazard Class:</b>	None
<b>Packing Group:</b>	None
<b>Exceptions:</b>	None
<b>Class/Division:</b>	None

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**INTERNATIONAL AIR TRANSPORTATION (IATA)**

**Proper Shipping Name:** Not Regulated  
**Identification Number:** None  
**Class/Division:** None  
**Packing Group:** None  
**Exceptions:** None

**Section 15 – Regulatory Information** (Not meant to be all inclusive - selected regulations represented)

**TSCA Listed:** All components are listed on Toxic Substance Control Act Inventory.  
**CERCLA:** (Comprehensive Emergency Response, Compensation and Liability Act): NA  
**SARA Title III: (Superfund Amendments and Reauthorization Act):** 313 Reportable Ingredients: None  
**Canadian Inventory Status:** Listed  
**California Proposition 65:** None

**Section 16 – Other Information****HMIS – Hazardous Materials Identification System**

HMIS Rating	
Health	2
Fire	1
Reactivity	0
Personal Protection	B

**0 - minimal hazard, 1 - slight hazard, 2 - moderate hazard, 3 - serious hazard, 4 - severe hazard**  
**NFPA**

NFPA Rating	
Health	2
Fire	1
Reactivity	0

The information provided herein was believed to be accurate at the time of preparation and prepared from a compilation of sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of this product, and to determine the suitability of the product for its intended use.