Material Safety Data Sheet
May be used to Comply with OSHA's
Hazard Communication Standard,
29 CFR 1910.1200(q). Standard must be
Consulted for specific requirements

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that

Identity (As Used On Label and List)	**Date Prepared:**
B4124 Bond A Boo Boo (Hardener)	01-22-2014

Section 1 ~ Identification

Manufactured for: OMEGA INDUSTRIAL SUPPLY, INC	**Emergency Telephone Number:** 1-800-424-9300
Address (Number, Street, Suite/Apt#) 101 Grobric Ct #1	**Telephone Number for Information:** 1-800-571-7347
(City, State, and Zip Code) Fairfield, CA 94534	**Signature of Prepare (Optional)** REGULATORY DEPT.

Section 2 ~ Composition/Information on Ingredients

Hazardous Components (Specific Chemical Identity, Common Name(s))	**CAS No.**	**ACGIH TLV**	**OSHA PEL**	**AIHA WEEL**	**OTHER**	**%(Wt.)**
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	68410-23-1	None	None	None	None	60 - 100
Triethylenetetramine	112-24-3	None	None	1 ppm (6 mg/m3) TWA (Skin)	None	10 - 30
Silicon dioxide	7631-86-9	6 mg/m3 TWA	20 MPPCF TWA 0.8 mg/m3 TWA	None	3 mg/m3 TWA Respirable fraction	1 - 5

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

Section 3 ~ Hazard(s) Identification

EMERGENCY OVERVIEW: Danger: Causes eye and skin burns. May cause allergic skin and respiratory reaction. May cause respiratory tract irritation. May be harmful if swallowed.

Route(s) of Entry: Skin, inhalation, eyes, ingestion.

Eyes— Burns, severe eye irritation, redness, tissue damage.
Skin— May cause skin burns. Allergic skin reaction, rash, redness.
Inhalation— Allergic respiratory reaction. May cause respiratory tract irritation. May cause irritation to nose and throat.
Ingestion— May be harmful if swallowed. May cause burns of mouth and throat if swallowed.

Existing conditions aggravated by exposure – Eye, skin and respiratory disorders, skin allergies.

Section 4~ First Aid Measures

Eyes— Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin— Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Thoroughly clean shoes before reuse. If symptoms develop and persist, get medical attention.
Inhalation— Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion— DO NOT induce vomiting unless directed to do so by medical personnel. Keep individual calm. Get immediate medical attention.

Section 5 ~ Fire Fighting Measures

Flash Point (Method Used):	> 129.5 °C (> 265.1 °F) ; Estimated	**Flammable Limits**	N/A	**LEL:**	N/A	**UEL:**	N/A

Extinguishing Media – Water spray (fog), foam, dry chemical or carbon dioxide.

Special Fire Fighting Procedures – Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Unusual Fire and Explosion Hazards – In case of fire, keep containers cool with water spray.

Hazardous combustion products – Oxides of carbon. Oxides of nitrogen. Irritating organic fragments.

Section 6 ~ Accidental Release Measures

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Environmental Precautions **—** Do not allow product to enter sewer or waterways.
Clean-Up Methods **—** Remove all sources of ignition. Immediately contact emergency personnel. Scrape up as much material as possible. Clean residue with soap and water. Store in a partly filled, closed container until disposal.

Section 7 ~ Handling and Storage

Precautions to be Taken in Handling and Storing – *Handling:* Keep away from heat, spark and flame. Do not breathe gas/fumes/vapor/spray. Keep container closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage: Store in original container until ready to use. Keep in a cool, well-ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

Section 8 ~ Exposure Controls/Personal Protection

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Respiratory Protection (Specify Type) – Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.	**Ventilation —** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Skin Protection –Use chemical resistant, gloves. Chemical resistant, impermeable gloves**.**	**Eye Protection –** Safety goggles or safety glasses with side shields.	**Other protective Clothing or Equipment –** Use chemical resistant, impermeable clothing and either an apron or body suit to prevent skin contact.

Work/Hygienic Practices – Observe good hygiene. Wash hands thoroughly after product use, eating, drinking, and using restrooms, etc.

Section 9 ~ Physical Chemical Properties

Boiling Point	270 °C (518°F)	**Specific Gravity (H_2O = 1)**	0.98
Vapor Pressure (mm/hg)	0.01 (20 °C (68°F))	**Melting Point**	N/A
Vapor Density (Air=1)	5	**Evaporation Rate (Butyl Acetate = 1)**	N/A
Solubility in Water	Not miscible or difficult to mix	**pH**	N/A
Appearance and Odor— Liquid, translucent, amber color with mild odor.		**VOC%**	0 % (value for resin and hardener together)

Section 10 ~ Stability and Reactivity

Stability:	**Unstable** ☐ **Stable** ☒	**Hazardous Polymerization:**	Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.

Conditions to Avoid – Avoid temperatures above 38°C (100°F). Excessive heat. Store away from incompatible materials. Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Failure to observe these precautions may result in excessive heat build-up causing an exotherm.

Incompatibility (Materials to Avoid) – Strong acids. Strong bases. Strong oxidizing agents. Amines. Water.	**Hazardous Decomposition or Byproducts** – None

Section 11 ~ Toxicological Information

Hazardous components	**NTP Carcinogen**	**IARC Carcinogen**	**OSHA Carcinogen (Specifically Regulated)**
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	No	No	No
Triethylenetetramine	No	No	No
Silicon dioxide	No	No	No

Hazardous components	**Health Effects/Target Organs**
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	Allergen
Triethylenetetramine	Allergen, Mutagen
Silicon dioxide	Nuisance dust

Section 12 ~ Ecological Information

N/A

Section 13 ~ Disposal Considerations

Information provided is for unused product only.

Recommended Method of Disposal — Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number — Not a RCRA hazardous waste.

Section 14 ~ Transport Information

US Depart. of Transportation (DOT)		Water Transportation (IMDG)		Air Transportation (IATA)	
Proper Shipping Name:	Triethylenetetramine solution	Proper Shipping Name:	Triethylenetetramine solution	Proper Shipping Name:	Triethylenetetramine solution
Hazard Class:	None	Hazard Class:	None	Hazard Class:	None
ID Number:	None	ID Number:	None	ID Number:	None
Packing Group:	None	Packing Group:	None	Packing Group:	None
Exceptions:	None	Label Statement:	-	Label Statement:	-

Section 15 ~ Regulatory Information

United States Regulations Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12(b) Export Notification: None above reporting de minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimus

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA 313: None above reporting de minimus

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

WHMIS Hazard Class: D.2.A, D.2.B, E

Section 16 ~ Other Information

	NFPA	HMIS	Key
HEALTH	-	3*	4= Severe
FLAMMABILITY	-	1	3= Serious
REACTIVITY/PHYSICAL HAZARD	-	0	2= Moderate
OTHER/PROTECTION	-	See Section 8	1= Slight
			0= Minimal

Material Safety Data Sheet
May be used to Comply with OSHA's
Hazard Communication Standard,
29 CFR 1910.1200(q). Standard must be
Consulted for specific requirements

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that

Identity (As Used On Label and List)	**Date Prepared:**
B4124 Bond A Boo Boo (Resin)	03-22-2014

Section 1 ~ Identification

Manufactured for: OMEGA INDUSTRIAL SUPPLY, INC	**Emergency Telephone Number:** 1-800-424-9300
Address (Number, Street, Suite/Apt#) 101 Grobric Ct #1	**Telephone Number for Information:** 1-800-571-7347
(City, State, and Zip Code) Fairfield, CA 94534	**Signature of Prepare (Optional)** REGULATORY DEPT.

Section 2 ~ Composition/Information on Ingredients

Components (Specific Chemical Identity, Common Name(s))	**CAS No.**	**ACGIH TLV**	**OSHA PEL**	**AIHA WEEL**	**OTHER**	**%(Wt.)**
Epichlorohydrin-4,4'-isopropylidene diphenol resin	25068-38-6	None	None	None	None	60 - 100
Butyl 2,3-epoxypropyl ether	2426-08-6	3 ppm TWA (SKIN) (Sensitizer)	50 ppm (270 mg/m3) TWA	None	None	10 - 30
Silicon dioxide	7631-86-9	6 mg/m3 TWA	20 MPPCF TWA 0.8 mg/m3 TWA	None	3 mg/m3 TWA Respirable fraction	1 - 5

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
See Section 11 for additional toxicological information.

Section 3 ~ Hazard(s) Identification

EMERGENCY OVERVIEW: May cause allergic skin and respiratory reaction. May be harmful if swallowed, absorbed through skin or inhaled. May cause eye, skin and respiratory tract irritation. Combustible liquid and vapor.

Route(s) of Entry: Skin, inhalation, eyes, ingestion.

Eyes— Severe eye irritation. If left untreated, corneal damage can occur and injury is slow to heal.
Skin— Allergic skin reaction. May be harmful if absorbed through skin, itching, redness.
Inhalation—Allergic respiratory reaction. May be harmful if inhaled, coughing, shortness of breath, mild respiratory tract irritation.
Ingestion—May be harmful if swallowed.

Existing Conditions Aggravated By Exposure) – Eye, skin and respiratory disorders, skin allergies, respiratory allergies, asthma.

Section 4~ First Aid Measures

Eyes— Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin— Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. If symptoms develop and persist, get medical attention.
Inhalation— Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention.
Ingestion— DO NOT induce vomiting unless directed to do so by medical personnel. Keep individual calm. If symptoms develop and persist, get medical attention.

Section 5 ~ Fire Fighting Measures

Flash Point (Method Used):	> 93.3 °C (> 199.94 °F) Pensky Martens closed cup	**Auto Ignition:**	N/A	**LEL:**	N/A	**UEL:**	N/A

Extinguishing Media – Foam, dry chemical or carbon dioxide.

Special Fire Fighting Procedures – Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Unusual Fire and Explosion Hazards – In case of fire, keep containers cool with water spray. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.

Hazardous Combustion Products – Oxides of carbon, irritating organic fragments, acids, aldehydes.

Section 6 ~ Accidental Release Measures

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Environmental Precautions — Do not allow product to enter sewer or waterways.
Clean-Up Methods — Remove all sources of ignition. Immediately contact emergency personnel. Scrape up as much material as possible. Clean residue with soap and water. Store in a partly filled, closed container until disposal.

Section 7 ~ Handling and Storage

Precautions to be Taken in Handling and Storing – *Handling:* Keep away from heat, spark and flame. Do not breathe gas/fumes/vapor/spray. Keep container closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage: Store in original container until ready to use. Keep in a cool, well-ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

Section 8 ~ Exposure Controls/Personal Protection

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Respiratory Protection (Specify Type) – Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.	**Ventilation —Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.**

Skin Protection – Chemical resistant, impermeable gloves.	**Eye Protection –** Safety goggles or safety glasses with side shields.	**Other protective Clothing or Equipment –** N/A

Work/Hygienic Practices – Observe good hygiene. Wash hands thoroughly after product use, eating, drinking, and using restrooms, etc.

Section 9 ~ Physical Chemical Properties

Boiling Point	140 °C (284°F)	**Specific Gravity (H_2O = 1)**	1.13
Vapor Pressure	2 mm hg (20 °C (68°F))	**Melting Point**	N/A
Vapor Density (Air=1)	N/A	**Evaporation Rate (Butyl Acetate = 1)**	N/A
Solubility in Water	Not miscible or difficult to mix	**pH**	N/A
Appearance and Odor— Liquid, clear and no odor.		**VOC%**	< 0.05 % (value for resin and hardener together) (estimated)

Section 10 ~ Stability and Reactivity

Stability:	**Unstable** ☐ **Stable** ☒	**Hazardous Polymerization:**	Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.

Conditions to Avoid – Avoid temperatures above 38°C (100°F). Excessive heat. Store away from incompatible materials. Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Failure to observe these precautions may result in excessive heat build-up causing an exotherm.

Incompatibility (Materials to Avoid) – Strong acids. Strong bases. Strong oxidizing agents. Amines. Water.	**Hazardous Decomposition or Byproducts** – None known.

Section 11 ~ Toxicological Information

Hazardous Components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No
Butyl 2,3-epoxypropyl ether	No	No	No
Silicon dioxide	No	No	No

Hazardous Components	Health Effects/Target Organs
Epichlorohydrin-4,4'-isopropylidene diphenol resin	Allergen, Irritant
Butyl 2,3-epoxypropyl ether	Irritant, Allergen, Central nervous system, Liver, Mutagen
Silicon dioxide	Nuisance dust

Section 12 ~ Ecological Information

N/A

Section 13 ~ Disposal Considerations

Information provided is for unused product only.

Recommended Method of Disposal — Follow all local, State, Federal and provincial regulations for disposal.

Hazardous waste number — Not a RCRA hazardous waste.

Section 14 ~ Transport Information

The shipping classifications in this sections are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

US Depart. of Transportation (DOT)		Water Transportation (IMDG)		Air Transportation (IATA)	
Proper Shipping Name:	Not regulated	Proper Shipping Name:	Not regulated	Proper Shipping Name:	Not regulated
Hazard Class:	Not regulated	Hazard Class:	None	Hazard Class:	None
ID Number:	None	ID Number:	None	ID Number:	None
Packing Group:	None	Packing Group:	None	Packing Group:	None
Exceptions:	None	Label Statement:	-	Label Statement:	-

Section 15 ~ Regulatory Information

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12(b) Export Notification: None above reporting de minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimus

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire

CERCLA/SARA 313: None above reporting de minimus

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

WHMIS Hazard Class: B.3, D.2.A, D.2.Bnited States Regulatory Information

Section 16 ~ Other Information

	NFPA	HMIS	Key	
HEALTH	-	2*	4=	Severe
FLAMMABILITY	-	1	3=	Serious
REACTIVITY/PHYSICAL HAZARD	-	0	2=	Moderate
OTHER/PROTECTION	-	See MSDS Section 8	1=	Slight
			0=	Minimal