

Material Safety Data Sheet

May be used to Comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be Consulted for specific requirements

HEALTH
FLAMMABILITY

HMIS

REACTIVITY
PERSONAL PROTECTION B

Identity (As Used On Label and List)

B4111P Super Patch (Epoxy Resin)

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.

Section I

Manufactured for:

OMEGA INDUSTRIAL SUPPLY, INC

Emergency Telephone Number:

1-800-424-9300

Address (Number, Street, City, State, and Zip Code)

101 Grobric Ct #1

Telephone Number for Information:

1-800-571-7347

Fairfield, CA 94534

Date Prepared

04-2005

Signature of Prepare (Optional)

REGULATORY DEPT.

Section II - Hazardous Ingredients / Identity Information

Hazardous Components

(Specific Chemical Identity, Common Name(s))

CAS No.

OSHA PEL

ACGIH-TLV

Other Limits

Recommended.

%(Wt.)

Polymer of epichlorohydrin

025085-99-8

N/A

N/A

and bisphenol

Alkyl glycidyl ether

068609-97-2

N/A

N/A

The following MSDS will apply to the liquid solution.

This product is not known to contain any compounds listed and in quantities requiring reporting under SARA Title III Section 313.

Any substance listed as hazardous by the State of California, Florida, Illinois, Michigan, New Jersey, Ohio, Pennsylvania or Texas is described above if known present in regulated concentrations.

Section III - Physical Chemical Characteristics

Boiling Point

>300°F

Specific Gravity (H₂O = 1)

>1

Vapor Pressure (mm Hg) @ 70°F

0.06mm

Melting Point

N/A

Vapor Density (Air=1)

N/A

Evaporation Rate (Butyl Acetate = 1)

<1

Solubility in Water

Complete

pH

—

Appearance and Odor—Clear yellow liquid

VOC%

—

Section IV – Fire and Explosion Hazard Data

USA Flame Projection Test (ASTM D-3065)

350-375°F (PMCC)

Flammable Limits

N/D

LEL

N/A

UEL

N/A

Extinguishing Media – Foam, dry chemical, CO₂

Special Fire Fighting Procedures –Wear positive pressure self-contained breathing apparatus and full protective equipment.

Unusual Fire and Explosion Hazards – None

Section V – Reactivity Data

Stability	Unstable	<input type="checkbox"/>	Conditions to Avoid – Excessive heating over long periods of time degrades the resin. Freezing may cause a temporary haze to develop. Fire conditions increase viscosity and epoxide equivalent weight.
	Stable	X	

Incompatibility (Materials to Avoid) – Base, acid, amines and oxidizing materials.

Hazardous Decomposition or Byproducts –under conditions of imperfect combustion and/or pyrolysis various phenolic compounds CO and/or CO2 may evolve.

Hazardous Polymerization	May Occur	<input type="checkbox"/>	Conditions to Avoid -None. Polymerization will not occur by itself, but masses of more than 1lb of product plus aliphatic amine will cause irreversible polymerization with considerable heat build-up.
	Will Not Occur	X	

Section VI – Health Hazard Data

Route(s) of Entry:	Eyes? Yes	Inhalation? No	Skin? No	Ingestion? No
Carcinogenicity:	NTP? No	IARC Monographs? No	OSHA Regulated? No	

Signs and Symptoms of Exposure:

Eyes—May cause temporary irritation.

Skin—Has cause allergic skin reactions in humans. A single prolonged exposure is not likely to result in the material getting absorbed into skin.

Inhalation— Excessive exposure may cause irritation to upper respiratory tract.

Ingestion— Single dose oral toxicity is low.

Emergency and First Aid Procedures.

Eyes—Flush with water.

Skin—See “Eyes”.

Inhalation—Remove to fresh air if effects occur. Consult physician.

Ingestion— Seek medical attention immediately.

Medical Conditions Generally Aggravated— Allergies

Section VII – Precautions For Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled.

Isolate hazard. Keep spark-producing equipment away. Keep out of sewers, storm drains, surface waters and soil. Soak up with absorbent material and collect in suitable containers. Residual resin may be removed with steam or hot soapy water.

Waste Disposal Method – According to Federal, State and local authorities only.

Precautions to be Taken in Handling and Storing –

Keep from freezing. Do not contaminate with unknown chemicals.

Other Precautions – KEEP OUT OF REACH OF CHILDREN.

Section VIII – Control Measures

Respiratory Protection (Specify Type) –

Good general ventilation should be sufficient for most conditions.

Ventilation	Local Exhaust	Adequate	Special	
	Mechanical (General)	Adequate	Other	

Protective Gloves – Impermeable.	Eye Protection – Safety glasses
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Other protective Clothing or Equipment – N/A

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

While the information and recommendations set forth herein are believed to be accurate as of the date hereon Omega Industrial Supply Inc. makes no warranty with respect thereto and disclaims all liability from reliance thereon.

Material Safety Data Sheet

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HEALTH
FLAMMABILITY

HMIS

2 REACTIVITY 0
1 PERSONAL PROTECTION B

Identity (As Used On Label and List) B4111P Super Patch (Epoxy Hardener)	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.
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Section I

Manufactured for: OMEGA INDUSTRIAL SUPPLY, INC	Emergency Telephone Number: 1-800-424-9300
Address (Number, Street, City, State, and Zip Code) 4950-B Fulton Drive Fairfield, CA 94534	Telephone Number for Information: 1-800-571-7347
	Date Prepared 04-1999
	Signature of Prepare (Optional) REGULATORY DEPT.

Section II - Hazardous Ingredients / Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS No.	OSHA PEL	ACGIH-TLV	Other Limits Recommended.	%(Opt.)
Benzyl Alcohol	100-51-6	N/A	N/A		>45
4,4-Methylenebis(cyclohexanamine)		N/A	N/A		
This product is classified as a delayed health hazard under EPA SARA Title III, Section 312					

This product is not known to contain any compounds listed and in quantities requiring reporting under SARA Title III Section 313.

Any substance listed as hazardous by the State of California, Florida, Illinois, Michigan, New Jersey, Ohio, Pennsylvania or Texas is described above if known present in regulated concentrations.

Section III - Physical Chemical Characteristics

Boiling Point	>431°F	Specific Gravity (H ₂ O = 1)	1.06
Vapor Pressure (mm/Hg) @70°F	0.70	Melting Point	N/A
Vapor Density (Air=1)	N/A	Evaporation Rate (Butyl Acetate=1)	< 1
Solubility in Water	.01-1% Slight	pH	---
Appearance and Odor— Amber colored, mobile liquid with ammoniacal odor.		VOC (grams per liter)	---

Section IV – Fire and Explosion Hazard Data

USA Flame Projection Test (ASTM D-3065) Flammable	Flammable Limits 219°F (CC)	LEL N/D	UEL N/D
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Extinguishing Media – Foam. Ignition will give rise to Class B fire. In case of large fire use water spray, alcohol foam. In case of small fire use carbon dioxide, dry chemical, dry sand or limestone.

Special Fire Fighting Procedures – Wear self-contained breathing apparatus and full protective equipment.

Unusual Fire and Explosion Hazards – May generate toxic or irritating combustion products, carbon monoxide gas and nitrogen oxide gas. Personnel in vicinity and downwind should be evacuated.

Section V – Reactivity Data

Stability	Unstable	<input type="checkbox"/>	Conditions to Avoid – N/A	Hazardous Polymerization	May Occur	<input type="checkbox"/>
	Stable	×			Will Not Occur	×

Incompatibility (Materials to Avoid) –Mineral acids, alkalis, organic acids, reducing agents, oxidizing agent, reactive metals, sodium or calcium hypochlorite. N-Nitrosamines, many of which are known to be carcinogens, may form when in contact with nitrous acid or nitrites. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in explosion. A reaction accompanied by large heat release occurs when mixed with acids. Heat generated may cause boiling.

Hazardous Decomposition or Byproducts –Under fire-carbon monoxide, carbon dioxide, nitrogen oxide, nitric acid. Elevated temperatures irritating and toxic fume.

Section VI – Health Hazard Data

Route(s) of Entry:	Eyes? Yes	Inhalation? No	Skin? yes	Ingestion?
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Health Hazards (Acute and Chronic) –
See Below

Carcinogenicity:	NTP? No	IARC Monographs? No	OSHA Regulated? No
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Signs and Symptoms of Exposure:

Eyes—Vapor in low concentrations can cause lacrimation, conjunctivitis and corneal edema when absorbed in eye tissue.
Skin—Dryness, defatting, itching, rash, mild discomfort. Repeated or prolonged contact may cause allergic reaction, sensitization.
Inhalation— Dryness of nasal passages may occur when inhaled over a long period of time.

Medical Conditions Generally Aggravated –Allergies, skin disorders and eye disease.

Emergency and First Aid Procedures:

Eyes & Skin—Flush with water
Inhalation—Remove to fresh air.
Ingestion—Call physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel.

Section VII – Precautions For Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled–

Stop the leak if possible. Reduce vapor spreading with water spray. Shut off or remove all ignition sources. Construct a dike to prevent spreading.

Waste Disposal Method—if recovery is not feasible, admix with dry soil, sand or non reactive absorbent and place in a container pending disposal. Flush are with water spray. Dispose according to Federal, State and local authorities only.

Precautions to be Taken in Handling and Storing –Keep from freezing. Keep away from acids, alkalis, oxidizers. Store in steel containers, above ground. Do not store in iron or other mental reactive containers.

Other Precautions – KEEP OUT OF REACH OF CHILDREN. Please read and follow directions on product label.

Section VIII – Control Measures

Respiratory Protection (Specify Type) –
Not required in a well ventilated workplace

Ventilation	Local Exhaust		Special	
	Mechanical (General)	Adequate	Other	

Protective Gloves – Neoprene rubber, cuffed buty rubber or nitrile rubber gloves.	Eye Protection – Safety Glasses
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Other protective Clothing or Equipment – Long sleeved clothing, safety showers

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

Material Safety Data Sheet

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HMIS

HEALTH

1

REACTIVITY

0

FLAMMABILITY

0

PERSONAL PROTECTION

Identity (As Used On Label and List)

B4111P Super Patch (Sand)

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.

Section I

Manufactured for:

OMEGA INDUSTRIAL SUPPLY, INC

Emergency Telephone Number:

1-800-424-9300

Address (Number, Street, City, State, and Zip Code)

4950-B Fulton Drive

Telephone Number for Information:

1-800-571-7347

Fairfield, CA 94534

Date Prepared

04-2005

Signature of Prepare (Optional)

REGULATORY DEPT.

Section II - Hazardous Ingredients / Identity Information

Hazardous Components

(Specific Chemical Identity, Common Name(s))

CAS No.

OSHA PEL

ACGIH-TLV

Other Limits

Recommended.

%(Opt.)

Silica, Crystalline Quartz

14808-60-7

10mg/³

0.1 mg/m³

8hr TWA

10hr TWA

This product is not known to contain any compounds listed and in quantities requiring reporting under SARA Title III Section 313.

Any substance listed as hazardous by the State of California, Florida, Illinois, Michigan, New Jersey, Ohio, Pennsylvania or Texas is described above if known present in regulated concentrations.

Section III - Physical Chemical Characteristics

Boiling Point

4046°F

Specific Gravity (H₂O = 1)
Concentrate

2.65

Vapor Pressure (mm/Hg)

N/A

Melting Point

N/A

Vapor Density (Air=1)

N/A

Evaporation Rate (Butyl Acetate=1)

Solubility in Water

Negligible

pH

Appearance and Odor— White or tan sand, granular, crushed or ground, odorless.

VOC (grams per liter)

Section IV – Fire and Explosion Hazard Data

USA Flame Projection Test (ASTM D-3065)

Non Flammable

Flammable Limits

None

LEL

N/A

UEL

N/A

Extinguishing Media – None required. Sand will not urn, but is compatible with all extinguishing media.

Special Fire Fighting Procedures – N/A

Unusual Fire and Explosion Hazards – None

Section V – Reactivity Data

Stability	Unstable	<input type="checkbox"/>	Conditions to Avoid –	Hazardous Polymerization	May Occur	<input type="checkbox"/>
	Stable	×			Will Not Occur	×

Incompatibility (Materials to Avoid) –Contact with powerful oxidizing agents such as fluorine may cause fires.

Hazardous Decomposition or Byproducts – Silica will dissolve in hydrofluoric acid and produce a corrosive gas-silicon tetrafluoride.

Section VI – Health Hazard Data

Route(s) of Entry:	Eyes?	Inhalation?	Skin?	Ingestion?
	Yes	Yes	Yes	No

Health Hazards (Acute and Chronic) –

Prolonged exposure to respirable crystalline quartz may cause delayed (chronic) lung injury (silicosis). Individuals with silicosis are predisposed to develop tuberculosis..

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	Yes	Yes	No

IARC concludes that there is sufficient evidence for the carcinogenicity of crystalline silica to humans. NTP classified respirable crystalline silica as reasonably anticipated to be a carcinogen.

Medical Conditions Generally Aggravated –Respiratory and pulmonary disorder. Anyone prone to eye irritation should not be exposed to respirable quartz dust.

Emergency and First Aid Procedures:

Eyes—Irrigate with water. if irritation persists, see physician.

Skin—

Inhalation—Remove victim to fresh air, give artificial respiration as needed, and seek medical attention as needed.

Ingestion—If large amount is swallowed, get immediate medical attention.

Section VII – Precautions For Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled–

Collect, using dustless method and place in appropriate container for use.

Waste Disposal Method– If uncontaminated, dispose as an inert, non metallic mineral. If contaminated dispose in accordance with Federal, State and local ordinances.

Precautions to be Taken in Handling and Storing –

Avoid breakage and dusting.

Other Precautions – KEEP OUT OF REACH OF CHILDREN. Please read and follow directions on product label.

Section VIII – Control Measures

Respiratory Protection (Specify Type) –

Use appropriate respiratory protection for respirable particulates based on consideration of airborne workplace concentrations and duration of exposure arising from intended end use.

Ventilation	Local Exhaust	Adequate	Special	
	Mechanical (General)		Other	

Protective Gloves – Recommended	Eye Protection – Safety glasses or goggles recommended.
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Other protective Clothing or Equipment – Optional

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