

This brief provides a general overview of the **Safety Data Sheet** requirements in the Hazard Communication Standard OSHA's 29 CFR 1910.1200(g) and Appendix D of 29 CFR 1910.1200).

Section 1 ~ Identification

Identity (As Used On Label and List) B4173 Pipe Bond Kit	Date Prepared: 04-23-2012
Company Information: OMEGA INDUSTRIAL SUPPLY, INC	Emergency Telephone Number: 1-800-424-9300
Address (Number, Street, Suite/Apt#) 101 Grobrie 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 ~ Hazard(s) Identification

Physical Hazards	<10 % of mixture consists of ingredients of unknown acute toxicity
Health Hazards	Not Classified As Hazardous Based On IMO and DOT. EYE CONTACT: Eye Irritation May Result SKIN CONTACT: May Cause Irritation INHALATION: Irritating to respiratory tract, damage to mucous membranes, allergic sensitization (Isocyanates). INGESTION: No Information OTHER: None CHRONIC EFFECTS OF OVEREXPOSURE: None

GHS Hazard Class



Category 1

Signal Word: Danger

Hazard Statement

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317: May cause an allergic skin reaction

Precautionary Statement
Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

Response

If inhaled remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Get emergency medical attention. If on Skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Storage

No

Disposal

Dispose of contents and container: Follow the waste disposal requirements of your country, state, or local authorities. Used material may be disposed of in municipal trash.

Section 3 ~ Composition/Information on Ingredients

Components (Specific Chemical Identity, Common Name(s))	CAS No.	OSHA PEL	ACGIH TLV	NIOSH REL	EINECS/ELINCS	Danger Symbol	RISK PHRASE	%(Wt.)
Polyisocyanate Prepolymer	TS	-	-	-	-			60 -95
4,4'-Diphenylmethane Diisocyanate (MDI)	101-68-8	-	-	-	202-966-0	Xn	R20,36, 37/38/, 42, 43	5 - 20
Polymeric Diphenylmethane Diisocyanate (pMDI)	9016-87-9	-	-	-	-			< 15
Diphenylmethane Diisocyanate (MDI) Mixed Isomers	26447-40-5	-	-	-	-			< 5
Polyester Resin	TS	-	-	-	-			< 5
Zinc Sulfide	1314-98-3	-	-	-	215-251-3			< 5

Trade Secret (TS) Some items on this MSDS may be designated as trade secrets. Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13. The full text for all R-Phrases is shown in Section 16

Section 4 ~ First Aid Measures

Eyes — Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

Skin — Immediately flush skin with plenty of soap and water. Remove contaminated clothing.

Inhalation — Remove to fresh air. If not breathing, provide CPR (cardio pulmonary resuscitation). Get immediate medical attention.

Ingestion — If swallowed do not induce vomiting, give large quantities of water to drink. Never give anything to an unconscious person. Get immediate medical attention.

Section 5 ~ Fire Fighting Measures

Extinguishing Media — Foam, dry chemical powder, or carbon dioxide

Special Firefighting Procedures — None

Unusual Fire And Explosion Hazards — Emits toxic fumes under fire conditions.

Section 6 ~ Accidental Release Measures

Action To Be Taken If Material Is Released Or Spilled — Ensure adequate ventilation. Wear proper protective equipment as specified in Section 8: Exposure Controls/Personal Protection. Warn other workers of spill and contain spill. Place material into a chemical waste container. Prevent spills or contaminated rinse water from entering sewers or watercourses.

Disposal Method — Disposal should be made in accordance with federal, state and local regulations as stated in Section 13.

Section 7 ~ Handling and Storage

Precautions To Be Taken In Handling And Storage — Use only with adequate ventilation. Do not inhale vapors. Wear proper protective equipment when handling this material. Avoid contact with skin, eyes or clothing. Wash hands and face after handling this material. Keep out of reach of children. Follow all applicable local regulations for handling and storage.

Information On Emptied Container — Dispose of this container according to local, state, and federal laws in your country. Do not reuse this container. This container may be hazardous when emptied.

Specific Uses — Repair of leaks in all types of pipes, hoses, and lines that may contain fluids, gases, or any other type of material.

Section 8 ~ Exposure Controls/Personal Protection

Respiratory Protection – Use a suitable respiratory protective device in case of insufficient ventilation. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or the European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Ventilation – Always provide good general, mechanical room ventilation where this chemical/material is used.

Hand Protection – Wear chemical impervious gloves at all times while working with this product. Recommended glove types include: Laminate Film, Nitrile, or Tri-polymer. Check with your company's glove supplier to ensure chemical resistance.

Eye/face protection– Safety Glasses, Chemical goggles, or face shield

Skin Protection Other– Wear suitable protective clothing to prevent skin contact.

General hygiene considerations – Avoid breathing vapor. Avoid contact with eyes. Wash hands and face after handling.

Section 9 ~ Physical Chemical Properties

Boiling Point	Approx. 694 °F (367.78) °C Estimated based upon components	Specific Gravity	1.14
Vapor Pressure @ 77 °F (25 °C)	< 0.0001 mmHg	Melting/Freezing Point	N/E
Vapor Density @ 77 °F (25 °C)	Approx. 1.14 g/cm3	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	Insoluble – Reacts slowly with water to liberate CO2 gas	pH	N/A
Appearance and Odor — Grey, fiberglass tape impregnated with grey liquid with slight aromatic odor.		VOC Content	Approx 5400 mPas @ 77 °F (25 °C)
Flash Point (Method Used): 460 °F (237.78 °C) Pensky-Martens Closed Cup ASTM D-93	Flammability (Solid, gas): N/A	Lower Flammability Level: N/A	Upper Flammability Level: N/A

Section 10 ~ Stability and Reactivity

Stability: Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>	Conditions to Avoid – None	Hazardous Polymerization: May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/>
Incompatibility (Materials to Avoid) – Water reacts with the chemicals in the tape.		Hazardous Decomposition or Byproducts – None

Section 11 ~ Toxicological Information

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments	Chemical Constituent
	LD50 (Oral/Rat):	> 10 g/kg		9016-87-9
	LC50 (Inhalation/Rat male):	369 mg/m3/4hour		108-68-8
	LD50 (Oral/Rat):	> 15 g/kg		1314-98-3
	LD50 (Dermal/Rabbit):	> 2 g/kg		1314-98-3
Acute Toxicity		No information is available.		
Skin Corrosion/Irritation		No information is available		
Serious Eye Damage/Eye Irritation		No information is available		
Respiratory or Skin Sensitization		No information is available		
Germ Cell Mutagenicity		No information is available		
Carcinogenicity		Not Listed	NTP	
		Not classifiable as to its carcinogenicity in humans (Group 3)	IARC	108-68-8
		Not classifiable as to its carcinogenicity in humans (Group 3)	IARC	9016-87-9
		Not Listed	OSHA	
Reproductive Toxicity		No information is available		
STOST – Single Exposure		No information is available		
STOST – Repeated Exposure		No information is available		
Aspiration hazard		No information is available		
Ames Test	Negative			9016-87-9
	Negative			108-68-8

STOST = Specific Target Organ Systemic Toxicity.

Other Information: Only selected Registry of Toxic Effects of chemical Substances (RTECS0 DATA IS PRESENTED HERE. See actual entry in RTECS for complete information.

Section 12 ~ Ecological Information

Biodegradation — No information is available.

Bioaccumulation — No information is available.

Eco Toxicity — LC50 Daphnia magna (Water flea) 970 mg/L/48 hr; static 1314-98-3; LC50 Pimephales promelas (Fathead minnow) 1826 mg/L/96 hr; static 1314-98-3

Mobility — No information is available.

Note: Not all of the ingredients have been tested for Ecotoxicity.

Section 13 ~ Disposal Considerations

Waste From Residues / Unused Products —Follow the waste disposal requirements of your country, state, or local authorities. Water reacted product can be disposed of in municipal trash.

Contaminated Packaging — Contaminated packaging material should be disposed of as stated above for residues and unused product.

Rinsate — Recommend not to dispose of rinse water containing product in a storm water drainage system.

Section 14 ~ Transport Information

DOT Transport: DOT Proper Shipping Name:		Not Regulated	ADR= International Carriage of Dangerous Goods by Road:		Not Regulated
Rail Transport:	Not Regulated	SEA Transport:	Not Regulated	Air Transport: IATA/ICAO Class:	Not Regulated

Section 15 ~ Regulatory Information

Directive 67/548/EEC

LABEL FOR SUPPLY:



N

Harmful

RISK PHRASES:

R-Phrase:	R36	Irritating to Eyes
	R38	Irritating to Skin
	R42/43	May cause sensitization by inhalation and skin contact
S-Phrase:	S24	Avoid contact with Skin
	S25	Avoid contact with Eyes.

Toxic Substances Control Act (TSCA) Status:

This product is in compliance with rules, regulations, and orders of TSCA. All components are listed on the TSCA Inventory.

Superfund Amendments And Reauthorization Act of 1986 (SARA) TITLE III SECTION 313 Supplier Notification:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for the material. The Section 313 toxic chemicals contained in this product are: Zinc Sulfide CAS 1314-98-3

California Proposition 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.
The California proposition 65 chemical(s) contained in this product are: None

State Right-To-Know Toxic Substance Or Hazardous Substance List:

Florida Toxic Substance(s): Not listed	Massachusetts's hazardous substance(s): Not listed
Pennsylvania hazardous substance code(s): Not listed	New Jersey Not listed
Illinois Not listed	Michigan Not listed

Canada: This MSDS/SDS will be non compliant 3 years after the issue date. This MSDS contains all of the information required by the Controlled Products Regulations (CPR).

WHMIS-Information:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR), SOR/88-66, current to February 20, 2012. There are no WHMIS hazard classes applicable to this product.

European Union:

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Directive 67/548/EEC, Regulation (EC) No 1272/2008 on classification, labeling and packaging (CLP) of substances and mixtures.

Section 16 ~ Other Information**European Community Hazards Identification:**

R: 20	Harmful by inhalation
R: 36/37/38	Irritating to eyes, respiratory system and skin
R: 42/43	May cause sensitization by inhalation and skin contact
S: 1/2	Keep locked up and out of the reach of children.
S: 23	Do not breathe gas/fumes/vapour/spray
S: 36/37	Wear suitable protective clothing and gloves
S: 45	In case of accident or if you feel unwell seek medical advice immediately

Danger Symbol(s): Xn Harmful

Revision Comments: Updated from April 13, 2012

Revision Number: 0

Information Sources: RTECS, REACH, OSHA 29CFR 1910.1200

	NFPA	HMIS	Key
HEALTH	1	-	4= Severe
FLAMMABILITY	0	-	3= Serious
REACTIVITY	0	-	2= Moderate
OTHER/PROTECTION	-	-	1= Slight
			0= Minimal

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