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) **PIPE BOND KIT B4173: 3" KIT B4176: 4" KIT**	**Date Prepared:** 01/05/24
Company Information: OMEGA INDUSTRIAL SUPPLY, INC	**Emergency Telephone Number:** 1-800-424-9300
Address (Number, Street, Suite/Apt#) 1133 WEST 27TH STREET	**Telephone Number for Information:** 1-800-571-7347
(City, State, and Zip Code) CHEYENNE, WY 82001	**Signature of Prepare (Optional)** REGULATORY DEPT.

Section 2 ~ Hazard(s) Identification

Classifications

Acute Toxicity (Inhalation), Category 4
Respiratory Sensitization, Category 1
Skin Sensitization, Category 1
Target Organ Toxicity (Single exposure), Category 3
Target Organ Toxicity (Repeated exposure), Category 2

Label Elements

Signal Word: **DANGER**

Hazard Statement

H332: Harmful if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
H373: May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

Precautionary Statement

Prevention:
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P271: Use only outdoors or in a well-ventilated area.
P285: In case of inadequate ventilation wear respiratory protection.
P272: Contaminated work clothing should not be allowed out of the workplace.

Response:
P312: Call a POISON CENTER/doctor/...if you feel unwell.
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
P302+P352: IF ON SKIN: Wash with plenty of water/...
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314: Get medical advice/attention if you feel unwell.
P362+P364: Take off contaminated clothing and wash it before reuse.

Storage:
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.

Disposal:
P501: Dispose of contents/container to ...

Other Hazards

Not Classified As Hazardous Based On IMO and DOT.

EMERGENCY OVERVIEW
PHYSICAL APPEARANCE: Fiberglass tape impregnated with white liquid
IMMEDIATE CONCERNS: Reacts violently with common materials including water, alcohols, bases, and amines. Eye irritant. Harmful if inhaled. Possible sensitizer.

POTENTIAL HEALTH EFFECTS
EYES: May cause significant irritation to the eyes.
SKIN: Allergic reaction and significant irritation to the skin is possible.
INGESTION: May cause significant irritation to the digestive tract.
INHALATION: Irritating to the nose, throat and respiratory tract.
CARCINOGENICITY: This product does not contain any ingredients designated by NTP, IARC, ACGIH or OSHA as a probable or suspected human carcinogens.
SENSITIZATION: Possible sensitizer by inhalation and skin contact.

Section 3 ~ Composition/Information on Ingredients

Chemical Name	Wt.%	CAS
Glass, oxide; Glass	80 - 90	65997-17-3
Polyisocyanate Prepolymer based on MDI	5 - 10	67815-87-6
Methylene Bisphenyl Isocyanate	< 5	101-68-8
Polymeric Isocyanates	< 5	9016-87-9
Methylenediphenyl Diisocyanate	< 5	26447-40-5
Various Non-Hazardous Pigments	< 5	Various

COMMENTS: Criteria for listing components in this SDS are as follows: Carcinogens are listed at 0.1% or greater; hazardous components according to regulation 2012 OSHA Hazard Communication Standard: 29 CFR 1910.1200 are listed at 1.0% or greater; non-hazardous components are not listed. This is not intended to be the complete compositional disclosure. If a "Trade Secret" "(TS)" is claimed in accordance to paragraph (i) of 1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4 ~ First Aid Measures

EYES: Immediately flush with plenty of water for two minutes. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Have eyes examined and tested by medical personnel.

SKIN: Remove contaminated clothing and immediately wash affected skin area with plenty of soap and water. Seek medical attention. Either discard or wash contaminated clothing and shoes before reuse.

INGESTION: If affected person is conscious and alert, give 2-3 glasses of water to drink. DO NOT INDUCE VOMITING or give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult. Seek medical attention if cough or other symptoms develop.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

SKIN: May cause skin irritation. Symptoms may include redness, drying, defatting, and cracking of the skin.

INGESTION: May be harmful if swallowed. May cause stomach distress, nausea, or vomiting.

INHALATION: May cause respiratory tract irritation. May cause dizziness, headache, nausea, and mental confusion.

ACUTE EFFECTS: Diisocyanate vapors or mist at concentrations above the TLV or PEL can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV or PEL with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Chemical or hypersensitivity pneumonitis, with flu-like symptoms (e.g., fever, chills), has also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible.

CHRONIC EFFECTS: As a result of previous repeated overexposures or a single large dose, certain individuals may develop sensitization to isocyanates (asthma or asthma-like symptoms) that may cause them to react to a later exposure to isocyanates at levels well below the TLV or PEL. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath or asthmatic attack, could be immediate or delayed up to several hours after exposure. Extreme asthmatic reactions can be life threatening. Similar to many non-specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Sensitization can be permanent. Chronic overexposure to isocyanates has also been reported to cause lung damage (including fibrosis, decrease in lung function) that may be permanent. Prolonged contact with skin can cause reddening, swelling, rash, and, in some cases, skin sensitization. Animal tests and other research indicate that skin contact with MDI can play a role in causing isocyanate sensitization and respiratory reaction. This data reinforces the need to prevent direct skin contact with isocyanates.

NOTES TO PHYSICIAN: Treat according to symptoms (decontamination, vital functions), no known specific antidote, administer corticosteroid aerosol to prevent pulmonary edema.

Section 5 ~ Firefighting Measures

FLAMMABLE CLASS: Not Applicable
EXTINGUISHING MEDIA: Dry Chemical, Foam, or Carbon Dioxide. Water is not recommended do to reaction.
OTHER CONSIDERATIONS: Not considered flammable or combustible, but this product will burn if involved in a fire. Product emits toxic fumes when burned.
FIRE FIGHTING PROCEDURES: Do not release runoff from fire control methods to sewers or waterways.
FIRE FIGHTING EQUIPMENT: Firefighting personnel are required to use respiratory and eye protection. Full fire protective equipment (Bunker Gear) and self-contained breathing apparatus (SCBA) is recommended to be used for all indoor fires and any significant outdoor fires. SCBA may not be required for small outdoor fires that may easily be extinguished with a portable fire extinguisher.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Nitrogen, Oxides of Carbon.

Section 6 ~ Accidental Release Measures

SMALL SPILL: Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on absorbent, such as diatomaceous earth, sawdust, vermiculite, or any appropriate readily available material and sweep or shovel absorbed material into closed containers for disposal. After all visible traces, including ignitable vapors, have been removed thoroughly wash the contaminated area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal.

Wear the appropriate personal protective equipment designated in Section 8, remove the leaking container to a containment area and place into an appropriate container to prevent any further spill.

LARGE SPILL: Construct temporary dikes of dirt or sand to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on absorbent, such as diatomaceous earth, sawdust, vermiculite, or any appropriate readily available material and sweep or shovel adsorbed material into closed containers for disposal. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal.

Wear the appropriate personal protective equipment designated in Section 8, close or cap leaking valves and/or block or plug hole in leaking container. Remove the leaking containers to a containment area and place into an appropriate container to prevent any further spill.

Contain material as described above and call the local fire, police, or appropriate emergency response provider for immediate emergency assistance.

ENVIRONMENTAL PRECAUTIONS
WATER SPILL: Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of material into sources of water.

GENERAL PROCEDURES: Absorb spill with an emergency spill kit, diatomaceous earth, saw dust or equivalent inert material. Shovel up and dispose of at an appropriate waste disposal facility following applicable laws and regulations.

Section 7 ~ Handling and Storage

GENERAL PROCEDURES: Store product in original containers. Store container in a secure cool, dry, well ventilated area at 55-85 deg. F. Opened containers should be blanketed with nitrogen gas at atmospheric pressure to avoid reaction with moisture. Contamination with moisture or "basic" compounds can cause dangerous pressure buildup in closed containers.

HANDLING: Use with sufficient ventilation to keep employee exposure below recommended limits. Provide adequate ventilation for storage, handling and use, especially for enclosed or low spaces. Avoid contact of liquid with eyes and prolonged skin exposure. Avoid breathing in vapors, mists, and aerosols. Do not allow product to contact open flame or electrical heating elements because dangerous decomposition products may form.

STORAGE: Store and warehouse product in an appropriate area or facility. Segregate like materials together to avoid negative chemical reactions. Protect materials from excessive exposure to heat. Observe proper storage conditions and temperatures.

STORAGE TEMPERATURE: (55°F) Minimum to (85°F) Maximum

COMMENTS: If bulging of containers occurs, transfer to a well ventilated area and open carefully to relieve pressure then reseal.

Section 8 ~ Exposure Controls/Personal Protection

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
	EXPOSURE LIMITS			
Chemical Name	Type		ppm	mg/m³
Glass, oxide; Glass	OSHA PEL	TWA		15
		STEL		5
	ACGIH TLV	TWA		10
		STEL		3
Methylene Bisphenyl Isocyanate	OSHA PEL	TWA	.02	.2
		STEL	.02	
	ACGIH TLV	TWA	.005	
	Supplier OEL	TWA	[1]	[1]
		STEL	[1]	[1]
OSHA TABLE COMMENTS: 1. Not Established				

ENGINEERING CONTROLS: Proper industrial hygiene practices are required for workers and should be achieved though engineering controls including ventilation with a high turn over rate whenever feasible. When such controls are not available or not feasible to achieve full protection, respirators for workers (and others in the area) and other personal protective equipment is mandated. Exhaust air may need to be scrubbed (cleaned) or filtered to reduce environmental contamination and odors.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety goggles or safety glasses with side shields when handling and mixing this material.

SKIN: Wear impervious compatible chemical resistant protective clothing such as neoprene or butyl rubber gloves, aprons, boots or Tyvek coveralls, as appropriate to prevent contact with skin.

RESPIRATORY: For respirator selection and training, seek professional advice. Whenever workplace conditions require a use of a respirator, follow a respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements. Wear an OSHA/NIOSH approved respirator selected on its suitability to provide adequate worker protection for the chemicals used and given working conditions including the level of airborne contamination and presence of sufficient oxygen.

WORK HYGIENIC PRACTICES: Always follow "Good personal hygiene practices" when working with this material.

COMMENTS: Always practice "good personal hygiene" during and after use of this materials, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. DO NOT eat, drink, or smoke in work areas that contain hazardous chemicals.

Section 9 ~ Physical and Chemical Properties

PHYSICAL STATE: Heavy Liquid/Paste
ODOR: Faint aromatic odor.
ODOR THRESHOLD: Not determined due to breath way sensitizing properties.
COLOR: White
PHYSICAL STATE COMMENTS: Fiberglass tape impregnated with white liquid

pH: No data available
FLASHPOINT AND METHOD: 238°C (460°F) Pensky-Martens CC
FLAMMABLE LIMITS: not flammable
VAPOR PRESSURE: < 0.001 mmHg at 25°C (77°F)
VAPOR DENSITY: Approx. 1.14 g/cm3 @ 77 deg F
SOLUBILITY IN WATER: Insoluble in water, reacts with evolution of CO2
PARTITION COEFFICIENT: N-OCTANOL/WATER: No data available
EVAPORATION RATE: Not Determined
SPECIFIC GRAVITY: 1.14 g/cm3 at 25°C (77°F)
VISCOSITY #1: 5400 mPa. s. at 25°C (77°F)
(VOC): ≤ to 0 g/l
Notes: None Expected.

Section 10 ~ Stability and Reactivity

REACTIVITY: Yes
HAZARDOUS POLYMERIZATION: May occur is material is in contact with moisture.
STABILITY: This material (product) is stable under normal ambient conditions of temperature and pressure. Follow recommendations for proper storage and use.
CONDITIONS TO AVOID: Avoid high temperatures, sources of ignition, and moisture.
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal oxidative decomposition of this product can produce CO, NOx, HCN, and HDI vapors. Some curing agents will react to produce a large amount of heat.
INCOMPATIBLE MATERIALS: Water, strong bases, strong acids, strong oxidizing agents, alcohols, and amines.

Section 11 ~ Toxicological Information

ACUTE TOXICITY
DERMAL LD50: > 9400 mg/kg (rabbit)
ORAL LD50: > 2000 mg/kg (rat)
INHALATION LC50: .49 mg/l (4 hour)
NOTES: Toxicity data based on polymeric MDI (a mixture of monomers and higher molecular weight oligomers).

RESPIRATORY OR SKIN SENSITISATION: Skin sensitisation according to Buehler (epicutaneous test):: negative (Guinea pig, OECD Test Guideline 406)

GENERAL COMMENTS: This product does not contain substances considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.

COMMENTS: The chemical, physical, and toxicological properties have not been thoroughly investigated or tested to the best of our knowledge.

Section 12 ~ Ecological Information

ENVIRONMENTAL DATA: Ecotoxicity data based on polymeric MDI (a mixture of monomers and higher molecular weight oligomers).
BIOACCUMULATION/ACCUMULATION: Oncorhynchus mykiss (rainbow trout), Exposure time: 112 d, < 1 BCF. Does not bioaccumulate.
GENERAL COMMENTS: Avoid contaminating waterways.

Section 13 ~ Disposal Considerations

DISPOSAL METHOD: See the manufacturers instructions to mix together with the proper components of multi-component materials, and allow to harden. Dispose solids at an appropriate waste disposal facility according to current applicable laws and regulations.
COMMENTS: Refer to Section 6. Accidental Release Measures for additional information.

Section 14 ~ Transportation Information

DOT (DEPARTMENT OF TRANSPORTATION)
PROPER SHIPPING NAME: Not Regulated
OTHER SHIPPING INFORMATION: None

AIR (ICAO/IATA)
SHIPPING NAME: Not Regulated

VESSEL (IMO/IMDG)
SHIPPING NAME: Not Regulated

CANADA TRANSPORT OF DANGEROUS GOODS
SHIPPING NAME: Not Regulated

Section 15 ~ Regulatory Information

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** Yes **ACUTE:** Yes **CHRONIC: No**
313 REPORTABLE INGREDIENTS: CAS# 1314-98-3 Zinc Sulfide

TSCA (TOXIC SUBSTANCE CONTROL ACT)
TSCA STATUS: All ingredients in this mixture are listed with the TSCA Chemical Substance Inventory.

REGULATIONS
STATE REGULATIONS: The following product components are cited on certain STATE RIGHT-TO-KNOW TOXIC SUNSTANCE OR HAZARDOUS SUBSTANCE LISTS. Non-listed components may be shown in the composition section of the MSDS.

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

CALIFORNIA PROPOSITION 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

CANADA
WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): This SDS is in compliance with WHMIS 2015 (HPR / new HPA).
DOMESTIC SUBSTANCE LIST (INVENTORY): This product or its components are listed or exempt from the Canadian Domestic Substance List (DSL). Components not listed have been submitted to Environment Canada.

COMMENTS
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

	NFPA	HMIS	Key
HEALTH	2	2	4= Severe
FLAMMABILITY	0	0	3= Serious
REACTIVITY	0		2= Moderate
PHYSICAL HAZARD		0	1= Slight
PROTECTIVE EQUIPMENT		G	0= Minimal

End of Safety Data Sheet