


Safety Data Sheet

Poly 700 B

SECTION 1. IDENTIFICATION	
Product identifier	Poly 700 B
Other Means of Identification	N. A
Recommended Use	Polyurethane coating
Restrictions on Use	Unknown
Supplier Identifier	PPI Tech INC. 2800 Cumberland st Lebanon, PA USA 14042 Web: www.ppitechinc.com
Emergency Phone No.	24-Hour Emergency Telephone Number Canada (CANUTEC): (613) 996-6666

SECTION 2. HAZARD IDENTIFICATION	
Classification	Acute Toxicity, Inhalation-mist (Category 4) Skin Sensitization (Category 1B) Skin Corrosion/irritation (Category 2) Serious eye damage/irritation (Category 2B) Respiratory sensitization (Category 1) Carcinogenicity (Category 2) Specific target organ toxicity-single exposure (Category 3- respiratory tract irritation) Specific target organ toxicity-repeated exposure (Category 2- by inhalation)
Label Elements	
	
Signal Word	
Danger	
Hazard Statements	
H320 Causes eye irritation. H315 Causes skin irritation. 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. H351 Suspected of causing cancer. H373 May cause damage to organs (olfactory) through prolonged or repeated exposure (inhalation).	

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Precautionary statements

Prevention:

P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves. P271 Use only outdoors or in a well-ventilated area. P260 Do not breathe dust/gas/mist/vapours. P261 Avoid breathing mist. P284 In case of inadequate ventilation wear respiratory protection. P272 Contaminated work clothing should not be allowed out of the workplace. P264 Wash with plenty of water and soap thoroughly after handling. P312 Call a POISON CENTER/doctor if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician. P314 Get medical advice/attention if you feel unwell. P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water. P333 + P311 If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician. P332 + P313 If skin irritation occurs: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash before reuse. P337 + P311 If eye irritation occurs: Call a POISON CENTER or doctor/physician. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.

Other Hazards: Unknown

GHS Special Labeling: EUH204 Contains isocyanates. May produce an allergic reaction.

Inhalation of isocyanate mists or vapors may cause respiratory irritation, breathlessness, chest discomfort and reduced pulmonary function. Overexposure well above the pel may result in bronchitis, bronchial spasms and pulmonary edema. Long-term exposure to isocyanates has been reported to cause lung damage, including reduced lung function which may be permanent. Acute or chronic overexposure to isocyanates may cause sensitization in some individuals, resulting in allergic respiratory reactions including wheezing, shortness of breath and difficulty breathing. Animal tests indicate that skin contact may play a role in causing respiratory sensitization.

SECTION 3. COMPOSITION

Chemical Name	CAS No.	% Concentration
diphenylmethane-4,4'-diisocyanate (MDI)	101-68-8	25 - 50 %
P-MDI	9016-87-9	10 - 15 %
Methylene diphenyl diisocyanate	26447-40-5	10-15 %

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation:

If INHALED: Remove person to fresh air and keep comfortable for breathing.

Skin Contact:

Flush with soap and water for a minimum of 15 minutes. Consult a physician if irritation persists or you feel unwell.

Eye Contact:

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

Ingestion:

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Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

If on skin:

Harmful if in contact with the skin. Causes skin irritation. Exposure may produce an allergic reaction

If in eyes:

Causes serious eye damage.

If Ingested:

Ingestion is likely to be harmful or have adverse effects

Immediate Medical Attention and Special Treatment:

Special Instructions:

If a physician or medical attention is required, have product container or label at hand.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

In case of fire: water spray, dry powder, carbon dioxide, foam

Unsuitable Extinguishing Media

Not available

Specific Hazards Arising from the Product

During fire, nitrous gases, fumes/smoke, isocyanates and vapour may be formed.

Special Protective Equipment and Precautions for Fire-fighters

Self-contained breathing apparatus and turn-out gear must be worn in case of fire.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Methods and Materials for Containment and Clean up

For small amounts: Absorb isocyanates with suitable absorbent material. Shovel into open container. Do not make container pressure tight. Move container to a well-ventilated area (outside). Spill area can be decontaminated with the following recommended decontamination solution: Mixture of 90% water, 8% concentrated ammonia, 2% detergent. Add at a 10 to 1 ratio. Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide.

For large amounts: If temporary control of isocyanates vapor is required, a blanket of protein foam or other suitable foam may be placed over the spill. Transfer as much liquid as possible via pump or vacuum device into closed but not sealed containers for disposal.

For residues: The following measures should be taken for final cleanup: Wash down spill area with decontamination solution. Allow solution to stand for at least 10 minutes. Dike spillage.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Provide suitable exhaust ventilation at the processing machines. Ensure thorough ventilation of stores and work areas. Avoid aerosol formation. When handling heated product, vapours of the product should be ventilated and respiratory protection used. Wear respiratory protection when spraying. Danger of bursting when sealed gastight. Protect against moisture. If bulging of drum occurs, transfer to well-ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing.

Conditions for Safe Storage

Keep away from water. Segregate from foods and animal feeds. Segregate from acids and bases. Segregate from bases. Formation of CO₂ and build-up of pressure possible. Keep container tightly closed and in a well-ventilated place. Outage of containers should be filled with dry inert gas at atmospheric pressure to avoid reaction with moisture.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION





Control Parameters

All protective clothing should be appropriately clean and available to dress into before work. The engineering measures or controls and PPE recommendations are only guidelines and may not apply to every situation.

Data not available. For additional information, please consult the corresponding requirements under <http://www.ccohs.ca/topics/hazards/chemical/chemicals/>

Chemical Name	ACGIH® TLV®		OSHA PEL		AIHA® WEEL®	
	TWA	STEL [C]	TWA	Ceiling	8-hr TWA	Short-term

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<p>Appropriate Engineering Controls Local exhaust ventilation required. Make up air should be supplied to balance air that is removed by local or general exhaust ventilation. Provide sufficient ventilation to keep vapors below permissible exposure limit. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national / local regulations are observed.</p> <p>Individual Protection Measures</p> <div style="display: flex; justify-content: space-around; align-items: center;">     </div> <p>General Measures Do not eat, drink or smoke during work. Avoid all contact with skin or eye. If clothing comes into contact with material, do not allow out of the workplace. Clean hands and any exposed skin thoroughly after work and before breaks.</p> <p>Eye / Face Protection Use tightly sealed goggles or safety glasses with side shields which are resistant to Chemicals.</p> <p>Skin Protection Wear chemical resistant protection gloves. Wear impervious clothing as necessary to protect against coming in contact with product.</p> <p>Respiratory Protection If insufficient ventilation, wear respiratory protection.</p>						

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Dark Liquid
Odor	Faintly aromatic
Odor threshold	Not available
pH	Not available
Freezing Point	-5 C
Initial Boiling Point / Range	200 C
Flash point	>200 C
Evaporation rate	Not available
Flammability(solid; gas)	Not available
Lower flammable/explosive limit	Not available
Upper flammable/explosive limit	Not available
Vapor pressure	0.00016 mmHg (20 C)
Vapor density	Not available
Specific gravity	1.178
Solubility	Reacts with water
Partition coefficient – n- Octanol/water	Not available
Auto-ignition temperature	>250°C (>482°F)
Decomposition temperature	Not available
Viscosity	135 cps @25C

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SECTION 10. STABILITY AND REACTIVITY	
Reactivity	Non-reactive
Chemical stability	Stable under recommended handling and storage conditions
Possibility of Hazardous reactions	Reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with alcohols. Reacts with acids. Reacts with alkalies. Reacts with amines. Risk of exothermic reaction. Risk of polymerization. Contact with certain rubbers and plastics can cause brittleness of substance/product with subsequent loss in strength.
Conditions to avoid	Avoid moisture
Incompatible materials	Acids, amines, alcohols, water, alkalines, strong bases, substances/products that react with isocyanates.
Hazardous decomposition products	carbon monoxide, carbon dioxide, nitrogen oxide, hydrogen cyanide, aromatic isocyanates, gases/vapours.

SECTION 11. TOXICOLOGY INFORMATION
<p>Likely Routes of Administration Inhalation, skin contact, eye contact, ingestion.</p> <p>Acute Toxicity Oral: Harmful if swallowed. Dermal: Harmful in contact with skin.</p> <p>LD50 and LC50 Data Not available</p> <p>Skin Corrosion/Irritation Causes skin irritation.</p> <p>Serious Eye Damage/ Irritation Causes serious eye damage</p> <p>STOT (Specific Target Organ Toxicity) – Single Exposure Inhalation May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>Aspiration Hazard Not classified based on available data.</p> <p>STOT (Specific Target Organ Toxicity) – Repeated Exposure Skin, eyes, central nervous system, respiratory system</p> <p>Respiratory and/or Skin Sensitization No data</p> <p>Carcinogenicity Unknown</p>

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Chemical Name	IARC	ACGIH®	NTP	OSHA

Reproductive Toxicity

Not available

Germ Cell Mutagenicity

Not available

Interactive Effects

Not available

SECTION 12. ECOLOGICAL INFORMATION

There is a high probability that the product is not acutely harmful to aquatic organisms.

This is not required by WHMIS

This is not required by OSHA HCS 2012

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Incinerate or dispose of in a licensed facility. Do not discharge substance/product into sewer system.

SECTION 14. TRANSPORT INFORMATION

UN Number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations:

Not classified as a dangerous good under transport regulations.

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime):

Not classified as a dangerous good under transport regulations.

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air):

Not classified as a dangerous good under transport regulations.

SECTION 15. REGULATORY INFORMATION

Not required under Canadian Regulations.

SECTION 16. OTHER INFORMATION

Date of Preparation August 2020

Date of Last Revision January 4, 2023

Revision Indicators The entire MSDS was change in August 2020 to be in accordance with the WHMIS 2015 which incorporates the Globally Harmonized System of Classification and Labeling of Chemicals for Canadian Workplaces.

References 1. CHOHS Fact Sheets September 2016 ©CCOHS 2016

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2. Supplier's Material Safety Data Sheet(s)	
ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute toxicity estimate
CAS	Chemical Abstract Service
DSL	Domestic Substance List
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC	Lethal concentration
LD	Lethal Dosage
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
STEL	Short-term Exposure Limit
TDG	Transport of dangerous goods in Canada
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System

Notice: The facts stated and the recommendations made with respect to the use of this product are based on liable information. No guarantee of accuracy is made. Before using, determine the suitability of the product's intended use. The purchaser assumes all risks and liability for losses, damage, or expenses, directly or indirectly, arising from the handling or use of the product or from any other cause. All recommendations are made on condition that PPI Tech Inc will not be liable for any damages resulting from its use since PPI Tech Inc cannot control the conditions under which the product will be transported, stored, handled or used by the purchaser.