

Pro Form Products Ltd. 604 McGeachie Drive Milton, Ontario, L9T 3Y5 Canada 905-878-4990

## PRODUCT: 17034 TRUCK LINE PLIOGRIP URETHANE ADHESIVE 3.5 MIN

#### **SECTION 01: IDENTIFICATION**

Adhesive applications.

Tel (905) 878-4990 Fax (905) 878-1189

IN THE UNITED STATES CALL CHEMTREC 1-800-424-9300.

\*\*\* For medical emergencies contact your local poison control centre \*\*.

Recommended use and restrictions on ..

use

Chemical family..... Epoxy adhesives.

Hazard rating NFPA rating.....

NFPA rating...... Health: 3 Fire: 1 Reactivity: 0.

HMIS...... H: 3 F: 1 R: 0.

# **SECTION 02: HAZARD IDENTIFICATION**





Signal Word Hazard Classification	DANGER. Skin Irritation — Category 2. Skin Sensitizer — Category 1. Eye Irritant 2. Specific Target Organ Toxicity — Repeated Exposure — Category 1. Respiratory Sensitizer — Category
Hazard Description	1. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H372 Causes damage to the liver and kidneys through prolonged or repeated exposure. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Prevention	P201 Obtain special instructions before use. P202 Do not handle this product until all safety instructions have been read and understood. P260 Do not breathe mist, vapours, or spray. P261 Avoid breathing mists, vapours and sprays. P264 Wash thoroughly after handling. P270 Do not eat drink or smoke while using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves and eye protection. P284 In case of inadequate ventilation wear respiratory protection.
Response	P302 + P352 - If on skin: wash with plenty of water. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing until medical help arrives. P321 - For specific treatment see section 4 on this SDS. P333 + P313 If skin irritation or rash occurs, get medical advice/attention. P337 + P313 - If eye irritation persists get medical attention. P342 + P311 If experiencing respiratory symptoms; call poison center or doctor. P362 + P364 - Take off contaminated clothing and wash before reuse.
Storage	P405 Store locked up.
Disposal	

**SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS** CHEMICAL NAME AND SYNONYMS CAS# WT. % PART A: Benzene, 1,1'-methylenebis[4-isocyanato- (MDI) 101-68-8 30-40 14807-96-6 10-15 5873-54-1 2,4-Diphenylmethane diidocyante (MDI) 0.5-1 PART B: **PIPERAZINE** 110-85-0 0.5-1

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#### **SECTION 04: FIRST-AID MEASURES**

In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at Eye contact..... least 15 minutes. Check for and remove any contact lenses, if safe and easy to do so. Obtain medical attention. Skin contact..... Immediately flush skin with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse. Do not peel solidified product off the skin. If irritation persists, seek medical attention. Inhalation..... If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person. If Ingestion..... spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into the lungs. Get medical attention. Eye: stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation frequently. Workplace vapours have produced reversible corneal epithelial Additional information..... edema impairing vision. Skin: this compound is a known skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burns. If burned, treat as thermal burn. Respiratory: this compound is a known pulmonary sensitizer. Treatment is essentially symptomatic. An individual having a skin or pulmonary sensitization reaction to this material should be removed from exposure to any isocyanate. In the event of an incident involving this product ensure that medical authorities are provided a copy of this safety data sheet. In all cases, if irritation persists seek medical attention.

#### **SECTION 05: FIRE-FIGHTING MEASURES**

Suitable and unsuitable extinguishing ..... media

Specific hazards arising from the ......hazardous product, such as the nature of any hazardous combustion products
Special protective equipment and .....precautions for fire-fighters

Unusual fire / explosion hazards.....

Dry chemical. Carbon dioxide. In cases of larger fires, water spray should be used.

Oxides of carbon (CO, CO2). Oxides of nitrogen. Phenols. Formaldehyde. Other potentially toxic fumes.

Firefighter should be equipped with self-contained breathing apparatus and full protective clothing to protect against potentially toxic and irritating fumes. During a fire, isocyanate vapours and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture. Heat will cause pressure buildup and may cause explosive rupture.

Reaction between water or foam and hot MDI can be vigorous.

# **SECTION 06: ACCIDENTAL RELEASE MEASURES**

If temporary control of isocyanate vapour is required, a blanket of protein foam may be placed over spill. If transportation spill occurs in United States, call Chemtrec 1-800-424-9300. If transportation spill occurs in Canada, call Canutec at (613) 996-6666. Large quantities may be pumped into closed, but not sealed, containers for disposal. Decontaminate spill area with decontamination solution. Area can then be washed with soap and water. Use a heat gun and a scraper to remove cured adhesive. Prior to using a heat gun, ensure that the surface can withstand the heat generated by the gun.

**SECTION 07: HANDLING AND STORAGE** 

Conditions for safe storage, including any incompatibilities

Clean up.....

Store in tightly closed containers to prevent moisture contamination. Store in a cool, dry and well ventilated area. Do not reseal if contamination is suspected. Exposure to vapours of heated isocyanates can be extremely dangerous.



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# **SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	ACGIH TLV TWA STEL		OSHA PEL PEL STEL		NIOSH REL	
Benzene, 1,1'-methylenebis[4-isocy anato- (MDI)	0.005 ppm	Not established	0.005 ppm TWA	0.005 ppm AB OEL TWA	0.05 mg/m3	
Talc	2 mg/m3	Not established	2 mg/m3 TWA	Not established	Not established	
	CA ON: 2mg/kg (TV	/A)				
2,4-Diphenylmethane diidocyante (MDI)	Not established	Not established	Not established	Not established	Not established	
PIPERAZINE	Not established	Not established	Not established	Not established	Not established	
Respiratory/type		Chemical safety goggles. Chemical safety goggles and full faceshield if a splash hazard exists. Contact lenses should not be worn when working with this chemical. In case of insufficient ventilation, wear suitable respiratory equipment. An approved air purifying respirator with organic vapour cartridges and particulate prefilter can be used to minimize exposure. Diisocyantes have poor warning properties. An air-purifying respirator with an organic vapour cartridge and an N95 filter can be used safely and effectively to reduce exposure, provided that appropriate cartridge change schedules are developed to ensure that cartridges are changed before breakthrough occurs. The employer is required to select the appropriate respirator for each situation and must consider the potential exposure to chemicals in addition to diisocyanates. Protection provided by air-purifying respirators is limited. The use of a positive pressure air supplied respirator is mandatory when airborne concentrations are not known or airborne solvent levels are 10 times the appropriate exposure limit or spraying is performed in a confined space or with limited ventilation. Use NIOSH approved respirator or equipment. Do not exceed the use limits of the respirator.				
Gloves/ type  Clothing/type	C h	Chemical resistant gloves: butyl rubber, nitrile rubber, neoprene, PVC. Practice good hygiene, wash thoroughly before handling any food.  Wear adequate protective clothes. Wear long sleeves and trousers to prevent dermal				
Footwear/type Other/type Appropriate engineering controls		exposure.  Safety boots per local regulations.  Eye wash facility and emergency shower should be in close proximity. Educate and train employees on the safe use and handling of the product.  Mechanical ventilation systems used to ventilate corrosive storage or process areas must be designed with components that are corrosion resistant. Ventilate adequately. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Vent work area to ensure airborne concentrations are below the current occupational exposure limits. Avoid breathing mists; if general ventilation or local exhaust is inadequate, persons exposed to mists should wear approved breathing devices.				

# **SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical stateColour	Part A:. Viscous liquid. Part A:. Beige.	Part B:. Liquid. Part B:. No data.
Odour		Fait B NO data.
Odour threshold (ppm)	Part A:. Not available.	Part B: . No data.
Vapour pressure (mm Hg)	Part A.: <0.013 hPa @ 77°F/25°C .	Part B:. < 3 hPa @ 77°F/25°C .
Vapour density (air=1)		Part B: >1.
pH		
Relative Density (Specific Gravity)	•	/USG @ 25°C. Part B:. 1.225 g/cm3 @ 20°C - 10.2
Melting / Freezing point (deg C)	lb/usg @ 25°C. Part A: . Not available.	Part B: . No data.
Solubility		
Initial boiling point / boiling range (deg C).		Part B:. No data.
Evaporation rate	Part A: . <1. (butyl acetate = 1).	Part B: . 1.0. Ethyl ether = 1.0.
Flash point (deg C), method	Part A:. >100°C, >212°F.	Part B:. >93.4°C, >200°F.
Auto ignition temperature (deg C)	Part A:. Not available.	Part B:. No data.
Upper flammable limit (% vol)	Part A: . No data.	Part B: . No Data.
Lower flammable limit (% vol)	Part A: . No Data.	Part B: . No data.
Partition coefficient — n-octanol/water	Part A: . Not available.	Part B: . No data.
VOC (less water)		Part B: . No data.
Viscosity	Part A: . Not available.	Part B: . No data.

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# **SECTION 10: STABILITY AND REACTIVITY**

Chemical stability..... Stable at normal temperatures and pressures. Reactivity ..... Contact with moisture and other materials will react with isocyanates. Excessive heat, flames and sparks, exposure to air and moisture. Acids, alcohols, aluminum, amines, ammonia, bases, copper, fluorides, iron, isocyanates,

discharge, shock or vibration oxidizers, water, zinc, phosphorus compounds. Hazardous decomposition products...... Isocyanates. Carbon oxides, formaldehydes, hydrocarbons, hydrogen cyanide, nitrogen

oxides, phenols, silicone polymers. Product will not undergo hazardous polymerization. Possibility of hazardous reactions.....

# **SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS		LC50	LD50		
	Benzene, 1,1'-methylenebis[4-isocyanato- (MDI)		490 mg/m3 4 hr 0.369 mg/L 4 hr	9,200 mg/kg rat oral >7,900 mg/kg rabbit dermal	
Talc		Not available	Not available		
2,4-Diphenylmethane diidocyante (MDI)		No data	No data		
	PIPERAZINE		No data	1,900 mg/kg oral rat; 4,000 mg/kg dermal rabbit	
	Route of exposure Effects of acute exposure	SKIN: Irritant. Can cause reddening, itching and swelling. May cause allergic reaction to skin. Contact with fibrous glass or its dust can cause skin irritation. EYE: Product liquid, aerosols or vapours are irritating. Can cause tearing, reddening and swelling. INHALATION: Breathing this material may be harmful or fatal. Vapour/mists at concentrations above the exposure limits can irritate (burning sensation) the mucous membranes in the respiratory tract. This can cause a runny nose, sore throat, coughing, chest discomfort, difficulty breathing and reduced pulmonary functioning. INGESTION: Swallowing this material may be harmful or fatal. Symptoms can include severe stomach and intestinal irritation, abdominal pain and vomiting of blood.			
	Carcinogenicity of material below the recommended None of the components		lammation. Symptoms are nor expected at air concentrations d exposure limits, if applicable.  s present in this material at concentrations equal to or greater than		
Reproductive effects			C, NTP, OSHA or ACGIH as a carcinogen.  ponent) has been shown to cause harm to the fetus in laboratory the fetus occurs only at exposure levels that harm the pregnant of these findings to humans is uncertain.		
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# **SECTION 12: ECOLOGICAL INFORMATION**

Environmental..... Do not allow to enter waters, waste water or soil. Persistence and degradability..... Not available.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

Information on safe handling for disposal. and methods of disposal, including any contaminated packaging

Dispose of waste in accordance with all applicable federal, provincial/State and local regulations. Industrial incineration is the preferred method. Empty containers retain product residue; observe all precautions for the product. Decontaminate containers prior to disposal. Empty decontaminated containers should be crushed to prevent reuse. Do not heat or cut empty containers with electric or gas torch as vapours and gases may be toxic.

Preexisting disorders of many types may be aggravated by exposure to this material.

#### **SECTION 14: TRANSPORT INFORMATION**

TDG Classification..... Not regulated. IATA Classification (Air)..... Not regulated. IMDG Classification (Marine)..... Not regulated. Marine Pollutant..... Potential marine pollutant.

Proof of Classification..... In accordance with Part 2.2.1 of the Transportation of Dangerous Goods Regulations (July

2, 2014) - we certify that classification of this product is correct. .

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# **SECTION 15: REGULATORY INFORMATION**

On Domestic Substances List (DSL). CEPA status..... TSCA inventory status..... All components are listed. OSHA.

This product is considered hazardous under the OSHA Hazard Communication Standard. ..... SARA Title III

Section 302 - extremely hazardous .......

substances Section 311/312 - hazard categories.......

Section 313..... EPA hazardous air pollutants (HAPS) ......

Disclaimer:....

40CFR63 California Proposition 65..... Immediate health, delayed health. 4,4'-methylenediphenyl diisocyanate.

None.

None.

#### **SECTION 16: OTHER INFORMATION**

REGULATORY AFFAIRS. Prepared by: ..... Telephone number:..... (800) 387-7981.

DISCLAIMER: All information appearing herein is based upon data obtained from experience and recognized technical sources. To the best of our knowledge, it is believed to be correct as of the date of issue but we make no representations as to its accuracy or sufficiency and do not suggest or guarantee that any hazards listed herein are the only ones which exist. The hazard information contained herein is offered solely for the consideration of the user, subject to his own investigation and verification of compliance with applicable regulations, including the safe use of the product under every foreseeable condition. The information relates only to the product designated herein, and does not

relate to its use in combination with any other material or in any other process.

2022-11-30. Review Date:.... Date of the latest revision of the safety ... 2015-07-31

data sheet

