

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

PRODUCT: 16502 FOAM GRIP FLEXIBLE URETHANE PART A

SECTION 01: IDENTIFICATION

Initial supplier identifier..... Pro Form Products Ltd. 604 McGeachie Drive

Milton, Ontario L9T3Y5 Tel (905) 878-4990 Fax (905) 878-1189

16502 FOAM GRIP FLEXIBLE URETHANE PART A Product identifier..... Paints. for industrial use only-keep out of reach of children .

Recommended use and restrictions on ...

Mixture. Polyol preparation. Health: 1 Fire: 0 Reactivity: 0.

Chemical family..... NFPA rating.....

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

For transportation emergencies (in Canada) call CANUTEC 1-888-226-8832 (CAN-UTEC); IN THE UNITED STATES CALL CHEMTREC 1-800-424-9300.

** For medical emergencies contact your local poison control centre **. 24 hour emergency number:.....

SECTION 02: HAZARD IDENTIFICATION



Signal Word..... WARNING.

Hazard Classification..... Acute Toxicity (Oral) — Category 4.

H302 Harmful if swallowed. Hazard Description.....

Prevention..... P264 Wash thoroughly after handling. P270 Do not eat drink or smoke while using this

product.

P301 + P312 If swallowed call a poison control centre. P330 Rinse mouth. Response

Storage..... See section 7.

Disposal..... P501 Dispose all unused, waste or empty containers in accordance with local regulations.

This product mixture has been classified based on its ingredients. Note

SECTION 03: COMPOSITION / INFOR	RMATION ON INGREDIENTS	5
CHEMICAL NAME AND SYNONYMS	CAS#	WT. %

Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-25322-69-4 15-40

<<The actual concentration(s) withheld as a trade secret>>

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. Consult a physician if irritation continues. Immediately remove all contaminated clothing; flush skin with water for at least 15 minutes. Skin contact.....

If irritation persists, seek medical attention. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is Inhalation.....

difficult, give oxygen, obtain medical attention.

In the event of accidental ingestion, rinse mouth with water; obtain medical advice Ingestion..... immediately. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into

the lungs Most important symptoms and effects, Harmful if swallowed. May cause mild skin irritation. May cause slight eye irritation.

whether acute or delayed

Additional information..... Treat victims symptomatically. In the event of an incident involving this product ensure that medical authorities are provided a copy of this safety data sheet.

PRODUCT: 16502 FOAM GRIP FLEXIBLE URETHANE PART A

SECTION 05: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing

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

"Alcohol" foam, CO2, dry chemical. Water fog. Do not use water in a jet.

Thermal decomposition products are toxic. May include:. Oxides of carbon (CO, CO2). Oxides of nitrogen. Bromine. Hydrogen bromide. Dense black smoke.

Firefighter should be equipped with self-contained breathing apparatus and full protective clothing to protect against potentially toxic and irritating fumes. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Isolate area and keep unauthorized people away. Do not walk through spilled material. Wear recommended protective equipment. Ventilate. Open windows and doors to allow air circulation. Dike area to prevent spreading. The use of absorbent socks or spill pillows may be required. Stop leak if safe to do so. Prevent runoff into drains, sewers, and other waterways.

Methods and materials for containment and cleaning up

Dike area to contain the spill, prevent runoff from going into drains, absorb residual material with an inert absorbent, shovel or pump to a properly labelled container and dispose of as a hazardous waste.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, and open flame. Avoid skin and eye contact. Avoid breathing vapours or mist. Employees should wash hands and face before eating or drinking. Keep container closed when not in use. Material is hygroscopic and may absorb small amounts of atmospheric moisture. Store away from oxidizing and reducing materials. Isocyanates. Do not store above 50 deg C.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	CGIH TLV STEL	OSH PEL	A PEL STEL	NIOSH REL
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Poly[oxy(methyl-1,2-ethan Not established ediyl)],

Not established

Not established

Not established

Not established

a-hydro-w-hydroxy-

Appropriate engineering controls.....

Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. Local mechanical exhaust ventilation should be used at sources of air contamination, such as open process equipment, or during purging operations, to capture gases and fumes that may be emitted. Standard reference sources regarding industrial ventilation (ie. ACGIH industrial ventilation) should be consulted for guidance about adequate ventilation.

Personal Protective Equipment

Eye/type..... Gloves/ type.....

Respiratory/type.....

Chemical safety goggles and full faceshield if a splash hazard exists. Wear skin protection equipment. The selection of skin protection equipment depends on

the nature of the work to be performed. The following gloves are recommended: Butyl rubber. Nitrile rubber. Contact glove supplier for recommendations. Local exhaust ventilation is recommended. Wear an appropriate, properly fitted respirator

when contaminant levels exceed the recommended exposure limits. Clothing/type..... Wear adequate protective clothes.

Footwear/type.....

Safety boots per local regulations. Emergency showers and eye wash stations should be available. Employees should wash Other/type..... their hands and face before eating, drinking, or using tobacco products.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state..... Liquid. Colour..... Light yellow. Odour..... Mild odour. Odour threshold (ppm)..... Not available. No data. pH.....Hq Not available. Not available. Flash point (deg C), method..... >100°C, >212°F. Evaporation rate..... Not available. Not applicable. No data. No data.

PRODUCT: 16502 FOAM GRIP FLEXIBLE URETHANE PART A

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Vapour pressure (mm Hg)..... Not available. Vapour density (air=1)..... Not available. Relative Density (Specific Gravity)..... Pounds / USG..... 9.32 lbs/USG. Solubility..... Negligible. Partition coefficient — n-octanol/water..... Not available. > 350 °C. Not available. Auto ignition temperature (deg C)..... Decomposition temperature...... Viscosity..... Not available. VOC (less water)..... 0.0 g/L - 0.0 lb/usg.

SECTION 10: STABILITY AND REACTIVITY

Product is stable; hazardous polymerization will not occur.

Chemical stability..... Stable at normal temperatures and pressures. Possibility of hazardous reactions..... Hazardous polymerization will not occur.

Conditions to avoid, including static Keep away from heat. discharge, shock or vibration

Incompatible materails..... Strong oxidizing agents, acids, bases. Phosphorous. Isocyanates.

No hazardous decomposition products when stored and handled correctly. See

hazardous combustion products section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS LC50 LD50

Not determined

500-2000 mg/kg (oral,rat); >10000 mg/kg (dermal, rabbit)

Route of exposure..... Eye contact. Skin contact. Inhalation. ATE mix (oral): . 978-2200 mg/kg.

Acute Toxicity Estimate (ATE)..... Symptoms related to the physical, chemical

Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-

and toxicological characteristics Effects of acute exposure.....

Hazardous decomposition products......

Harmful if swallowed. Can be irritating to eyes and skin. Excessive vapours may cause nasal and respiratory tract irritation.

Effects of chronic exposure..... Not expected to cause any adverse chronic health effects.

Carcinogenicity of material..... This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA. Mutagenicity..... The data does not allow for an adequate assessment of the mutagenic effect. Reproductive effects..... No data on reproductive effects were found in the literature sources consulted.

Specific Target Organ Toxicity No known adverse effects.

SECTION 12: ECOLOGICAL INFORMATION

Environmental..... No product data. Do not allow to enter waters, waste water or soil.

SECTION 13: DISPOSAL CONSIDERATIONS

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

Dispose of as an industrial waste in a manner acceptable to good waste management practice and in accordance with applicable local, provincial/State or federal regulations. Empty containers must be handled with care due to product residue.

SECTION 14: TRANSPORT INFORMATION

TDG Classification..... Not regulated. DOT Classification (Road)..... Not regulated. IATA Classification (Air)..... Not regulated. IMDG Classification (Marine)......Marine Pollutant..... Not regulated.

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. .

SECTION 15: REGULATORY INFORMATION

On Domestic Substances List (DSL).

TSCA inventory status..... All components are listed.

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

SARA Title III

Section 302 - extremely hazardous None.

substances



PRODUCT: 16502 FOAM GRIP FLEXIBLE URETHANE PART A

SECTION 15: REGULATORY INFORMATION

Section 311/312 - hazard categories...... Section 313...... EPA hazardous air pollutants (HAPS)

Immediate health.

None above De minimus % limit.

Manganese Compounds.

40CFR63

California Proposition 65.....

This product does not contain any chemical(s) known to the State of California to cause cancer or reproductive toxicity. For more information, go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

Prepared by: Disclaimer:.... REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com. 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.

Date of the latest revision of the safety ...

2022-11-30. 2020-02-26

data sheet



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Milton, Ontario L9T3Y5 Tel (905) 878-4990 Fax (905) 878-1189

16502 FOAM GRIP FLEXIBLE URETHANE PART B Product identifier..... Recommended use and restrictions on ... Paints. for industrial use only-keep out of reach of children .

Mixture. Aromatic isocyanate prepolymer. Health: 3 Fire: 1 Reactivity: 1.

Chemical family..... NFPA rating.....

H: 3 F: 1 R: 1.

24 hour emergency number:....

For transportation emergencies (in Canada) call CANUTEC 1-888-226-8832 (CAN-UTEC); IN THE UNITED STATES CALL CHEMTREC 1-800-424-9300.

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

SECTION 02: HAZARD IDENTIFICATION



Signal Word	DANGER.
Hazard Classification	Skin Irritation — Category 2. Skin Sensitizer — Category 1. Serious Eye Damage — Category 1. Acute Toxicity (Inhalation) — Category 4. Respiratory Sensitizer — Category
	 Specific Target Organ Toxicity — Single Exposure — Category 3. (respiratory system). Specific Target Organ Toxicity — Repeated Exposure — Category 1.
Hazard Description	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H332 Harmful if inhaled. H334 May cause allergy or asthma
	symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H372 Causes damage to organs through prolonged or repeated exposure.
Prevention	P260 Do not breathe mist, vapours, or spray. P264 Wash thoroughly after handling. P270 Do not eat drink or smoke while using this product. P271 Use only outdoors or in a well
	ventilated area. 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. P333 + P313 If skin irritation or rash occurs, get medical advice/attention. P362 + P364 - Take off contaminated clothing and
	wash before reuse. 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. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms; call poison center or doctor.
	P310 - Immediately call your local poison control centre.
Storage	P403 + P233 Store in a well ventilated area. Keep container tightly closed. P405 Store locked up.
Disposal Note	P501 Dispose all unused, waste or empty containers in accordance with local regulations.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS			
CHEMICAL NAME AND SYNONYMS	CAS#	WT. %	
Propanol, [(1-methyl-1,2-ethanediyl) bis(oxy)]bis-, polymer with 1-isocyanato-2-[(4-isocyanatophenyl) methyl]benzene and 1,1'-methylenebis [4-isocyanatobenzene]	75880-28-3	15-40	
Propanol, [(1-methyl-1,2-ethanediyl)bis(oxy)]bis-, polymer with 1,1'-methylenebis [isocyanatobenzene]	103837-35-0	15-40	
Diphenylmethanediisicyanate - prepolymer	72088-97-2	15-40	
Benzene, 1,1'-methylenebis[4-isocyanato- (MDI)	101-68-8	15-40	



PRODUCT: 16502 FOAM GRIP FLEXIBLE URETHANE PART B

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

2,4-Diphenylmethane diidocyante (MDI) 5873-54-1 10-30 Isophorone diamine 2855-13-2 1-5 2,2'-Diphenylmethane diidocyante (MDI) 2536-05-2 < 0.6

<<The actual concentration(s) withheld as a trade secret>>

SECTION 04: FIRST-AID MEASURES

Eye contact..... Check for and remove any contact lenses, if safe and easy to do so. Immediately flush eyes with running water for a minimum of 30 minutes preferably up to 60 minutes. Get medical attention immediately.

Immediately remove all contaminated clothing, flush skin with water for at least 15 minutes. Skin contact..... Wash clothing before reuse. If irritation persists, seek medical attention.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is Inhalation..... difficult, give oxygen, obtain medical attention.

If ingestion is suspected, contact physician or poison control center immediately. Rinse mouth with water. Do not induce vomiting. If spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into the lungs. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, whether acute or delayed

Ingestion.....

Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Causes skin irritation. Can cause skin sensitization. Harmful by inhalation. Can irritate mucous membranes of the respiratory tract. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Harmful if swallowed. Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

Additional information.....

In all cases, if irritation persists seek 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 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. Ingestion: treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of this compound.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing

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

Dry chemical. Carbon dioxide. Foam. In cases of larger fires, water spray should be used. Do not use water in a jet.

Reaction between water or foam and hot MDI can be vigorous. Thermal decomposition products are toxic. May include:. Oxides of carbon (CO, CO2). Oxides of nitrogen. Hydrogen cyanide. Isocyanates. Smoke. 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

SECTION 06: ACCIDENTAL RELEASE MEASURES

may cause explosive rupture.

Personal precautions, protective equipment and emergency procedures

Isolate area and keep unauthorized people away. Do not walk through spilled material. Wear recommended protective equipment. Ventilate. Open windows and doors to allow air circulation. Dike area to prevent spreading. The use of absorbent socks or spill pillows may be required. Stop leak if safe to do so. Prevent runoff into drains, sewers, and other waterways

Methods and materials for containment and cleaning up

Cover spill area with suitable absorbent material (e.g., sand, earth, sawdust, vermiculite, Oil-Dri, Kitty Litter, etc.). Saturate absorbent material with neutralizing solution. Recommended portion is ten parts neutralizing solution to one part spilled material. Suggested neutralization solution: 90% water + 5% concentrated ammonia + 5% detergent (dish soap). Add an additional layer of absorbent material. Use shovel to move absorbent material around to ensure that all spilled material comes in contact with the neutralizing solution. Shovel all absorbed material, including absorbent socks or spill pillows, into an appropriate salvage drum. Add further amounts of neutralizing solution. Allow to stand (covered loosely) for 48 to 72 hours, to allow any gases to escape. Decontaminate spill area with decontamination solution. Area can then be washed with soap and water. If temporary control of isocyanate vapour is required, a blanket of protein foam may be placed over spill. Process can generate heat.

PRODUCT: 16502 FOAM GRIP FLEXIBLE URETHANE PART B

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak/spill	Ventilate. Eliminate all sources of ignition. Contain the spill. Avoid all personal contact. Spilled material and water rinses are classified as chemical waste, and must be disposed of in accordance with current local, provincial, state, and federal regulations. Evacuate all non-essential personnel. Prevent runoff into drains, sewers, and other waterways. Absorb with earth, sand, or another dry inert material. Shovel into suitable unsealed containers, transport to well-ventilated area (outside) and treat with neutralizing solution: mixture of water (80%) with non-ionic surfactant Tergitol TMN-10 (20%); or water (90%), concentrated ammonia (3-8%) and detergent (2%).
Major spills	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.
Minor spills	Large quantities may be pumped into closed, but not sealed, containers for disposal. Absorb isocyanates with sawdust or other absorbent. Pour decontamination solution over spill area and allow to react for at least 10 minutes. Shovel into suitable containers and add further amounts of decontamination solution. Add about 10 parts of decontamination solution per part of isocyanate. Decontamination Solution: Mixture of water (80%) with non-ionic surfactant Tergitol TMN-10 (20%), or; water (90%), concentrated ammonia (3-8%) and detergent (2%). Allow to stand uncovered for 72 hours to let carbon dioxide escape.
Clean up	Decontaminate floor with decontamination solution, letting stand for at least 15 minutes.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....

Do not breathe vapours, mist or dust. Use adequate ventilation. Wear respiratory protection if material is heated, sprayed, used in confined space, or if exposure limit is exceeded. Warning properties (irritation of the eyes, nose and throat or odour) are not adequate to prevent chronic overexposure from inhalation. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed vapour or spray mist. Avoid skin and eye contact. Wash thoroughly after handling. Ensure that equipment is properly bonded and grounded during filling and transferring as product may become electrostatically charged. Employee education and training are important. Keep away from heat, sparks, and open flames. Store in tightly closed containers to prevent moisture contamination. Exposure to vapours of heated isocyanates can be extremely dangerous. Do not reseal if contamination is suspected. Storage temperature min/max 34-50C.

Conditions for safe storage, including any incompatibilities

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	ACGII TWA	HTLV STEL	OSHA PEL	PEL STEL	NIOSH REL
Propanol, [(1-methyl-1,2-ethanediyl) bis(oxy)]bis-, polymer with 1-isocyanato-2-[(4-isocya natophenyl) methyl]benzene and 1,1'-methylenebis [4-isocyanatobenzene]	Not established	Not established	Not established	Not established	Not established
Propanol, [(1-methyl-1,2-ethanediyl) bis(oxy)]bis-, polymer with 1,1'-methylenebis [isocyanatobenzene]	Not established	Not established	Not established	Not established	Not established
Diphenylmethanediisicyan ate - prepolymer	Not established	Not established	Not established	Not established	Not established
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
2,4-Diphenylmethane diidocyante (MDI)	Not established	Not established	Not established	Not established	Not established
Isophorone diamine	Not established	Not established	Not established	Not established	Not established
2,2'-Diphenylmethane diidocyante (MDI)	Not established	Not established	Not established	Not established	Not established

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SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. Local mechanical exhaust ventilation should be used at sources of air Appropriate engineering controls..... contamination, such as open process equipment, or during purging operations, to capture gases and fumes that may be emitted. Standard reference sources regarding industrial ventilation (ie. ACGIH industrial ventilation) should be consulted for guidance about

adequate ventilation.

Personal Protective Equipment

Chemical safety goggles and full faceshield if a splash hazard exists. Contact lenses Eye/type..... should not be worn when working with this chemical.

Wear skin protection equipment. The selection of skin protection equipment depends on the nature of the work to be performed. The following gloves are recommended:. Nitrile Gloves/ type.....

rubber. Butyl rubber. Neoprene. Contact glove supplier for recommendations. Whenever concentrations of isocyanates exceed the exposure limit or are not known, Respiratory/type..... respiratory protection must be worn. A positive pressure, supplied-air respirator or a self-contained breathing apparatus is recommended. At least an air-purifying respirator equipped with an organic vapour cartridge and particulate pre-filters must be worn. However, this should be permitted only for short periods of time (< 1 hour) at relatively low

concentrations (at or near the exposure limit). 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. Do not exceed the use limits of the respirator.

Wear adequate protective clothes.

Clothing/type..... Footwear/type..... Safety boots per local regulations.

Emergency showers and eye wash stations should be available. Educate and train Other/type.....

employees on the safe use and handling of the product.

Medical supervision of all employees who handle or come in contact with isocyanates is recommended. These should include preemployment and periodic medical examinations Medical surveillance.....

with pulmonary function test (FEC, FVC as a minimum). Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurring skin eczema or sensitization should be excluded from working with isocyanates. Once a person is diagnosed as sensitized to an isocyanate, no further exposure can be permitted. These should include preemployment and periodic medical examinations with pulmonary function test (fev, fvc as a minimum). Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrant skin eczema or sensitization should be excluded from working with isocyanates. Once a person is diagnosed as sensitized to an

isocyanate, no further exposure can be permitted.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state..... Liquid. Colour..... Light yellow. Slight. Aromatic odour. Odour.....

Odour threshold (ppm)..... Not available. pH..... No data Not available. No data.

112. (estimate; lowest flash point ingredient).

Not available. Not applicable. No data. No data. Vapour pressure (mm Hg)..... Not available. Vapour density (air=1).....Relative Density (Specific Gravity)..... No data.

1.241. Pounds / USG..... 10.36.

Solubility..... Insoluble. Reacts slowly with water to liberate CO2 gas.

Partition coefficient — n-octanol/water..... Not available. Auto ignition temperature (deg C)..... No data.

Decomposition temperature..... Polymerizes at 200C.

Not available. Viscosity..... VOC (less water)..... 0.0 g/L - 0.0 lb/usg.

SECTION 10: STABILITY AND REACTIVITY

Reacts slowly with water, forming carbon dioxide. Chemical stability..... Stable at normal temperatures and pressures.

Contact with moisture, other materials that react with isocyanates, or temperatures above Possibility of hazardous reactions.....

177C, may cause polymerization.

Conditions to avoid, including static Excessive temperatures. Contact with incompatible substances. discharge, shock or vibration

Incompatible materails..... Water, Amines, Strong bases, Alcohols, Copper alloys.



PRODUCT: 16502 FOAM GRIP FLEXIBLE URETHANE PART B

SECTION 10: STABILITY AND REACTIVITY

Hazardous decomposition products......

No hazardous decomposition products when stored and handled correctly. See hazardous combustion products section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Propanol, [(1-methyl-1,2-ethanediyl) bis(oxy)]bis-, polymer with 1-isocyanato-2-[(4-isocyanatophenyl) methyl]benzene and 1,1'-methylenebis [4-isocyanatobenzene]	No data	No data
Propanol, [(1-methyl-1,2-ethanediyl)bis(oxy)]bis-, polymer with 1,1'-methylenebis [isocyanatobenzene]	No data	Not data
Diphenylmethanediisicyanate - prepolymer	Not determined	Not determined
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
2,4-Diphenylmethane diidocyante (MDI)	No data	No data
Isophorone diamine	No data	1030 mg/kg (rat oral); 1800 mg/kg (rabbit dermal)
2,2'-Diphenylmethane diidocyante (MDI)	370-490 mg/m3 (4hr.) rat	Not available
Route of exposure Eye contact. Skin co Acute Toxicity Estimate (ATE) ATE mix (oral): . >20	ntact. Inhalation. 000 mg/kg ATE mix (dermal):. >6	000 mg/kg.

Causes skin irritation. Causes reddening, stinging and swelling. Persons previously sensitized can experience an allergic reaction with symptoms of reddening, itching, swelling and rash. Cured product is difficult to remove. Contact with MDI can cause discolouration. Causes eye irritation. Can cause tearing, reddening and swelling. May cause temporary corneal damage. Isocyanate 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, difficult breathing and reduced pulmonary functioning. Persons with pre-existing, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV with similar symptoms, as well as asthma attack. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm and pulmonary edema. Chemical or hypersensitive pneumonitis, with flu-like symptoms has also been reported. These symptoms can be delayed up to several hours after exposure. Effects are usually reversible. Ingestion may cause adverse health effects.

Effects of chronic exposure.....

As a result of previous repeated overexposure or a single large dose, certain individuals develop sensitization which will cause them to react to a later exposure to product at levels well below the exposure limit. Symptoms including chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed. 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. Prolonged or repeated exposure may cause lung damage, including a decrease in lung function. Prolonged vapour contact may cause conjunctivitis. Prolonged skin contact may cause reddening, swelling, rash, scaling, blistering, and in some cases, sensitization.

Isocyanates are known to cause skin and respiratory sensitization in humans. Animal tests

Carcinogenicity of material.

Mutagenicity.

This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA.
The data does not allow for an adequate assessment of the mutagenic effect.
Reproductive effects.

No data on reproductive effects were found in the literature sources consulted.
Specific Target Organ Toxicity.

Causes damage to organs through prolonged or repeated exposure. May cause

respiratory irritation.

SECTION 12: ECOLOGICAL INFORMATION

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: 16502 FOAM GRIP FLEXIBLE URETHANE PART B

SECTION 13: DISPOSAL CONSIDERATIONS

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

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. Empty containers must be handled with care due to product residue.

SECTION 14: TRANSPORT INFORMATION

TDG Classification	Not regulated.
DOT Classification (Road)	NA308Ž - Other regulated substances, liquid NOS (4,4'-Diphenylmethane diisoccyanate
, ,	(MDI)), Class 9, PĞIII.
IATA Classification (Air)	Not regulated.
IMDG Classification (Marine)	Not regulated.
Marine Pollutant	No.
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.

SECTION 15: REGULATORY INFORMATION

CEPA statusTSCA inventory status	
OSHA	This product is considered hazardous under the OSHA Hazard Communication Standard.
SARA Title III	
Section 302 - extremely hazardous	None.
substances	
Section 311/312 - hazard categories	Immediate health, delayed health.
Section 313	Decabromodiphenyl oxide. Methylene diisocyanate (MDI).
EPA hazardous air pollutants (HAPS)	Methylene Diphenyl Diisocyanate (MDI).
40CFR63	
California Proposition 65	This product does not contain any chemical(s) known to the State of California to cause cancer or reproductive toxicity. For more information, go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

Prepared by: Disclaimer:	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.
Date of the latest revision of the safety	