PR

SAFETY DATA SHEET

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

PRODUCT: PF 227 FOAM GRIP FLEXIBLE URETHANE PART A

FORM

SECTION 01: IDENTIFICATION

Initial supplier identifier	Pro Form Products Ltd. 604 McGeachie Drive Milton, Ontario L9T3Y5 Tel (905) 878-4990 Fax (905) 878-1189
Product identifier	PF 227 FOAM GRIP FLEXIBLE URETHANE PART A
Recommended use and restrictions on use	Paints. for industrial use only-keep out of reach of children .
Chemical family NFPA rating	Mixture. Polyol preparation.
HMIS	H: 1 F: 0 R: 0.
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 Hazard Classification Hazard Description Prevention	Acute Toxicity (Oral) — Category 4. H302 Harmful if swallowed.
	P301 + P312 If swallowed call a poison control centre. P330 Rinse mouth.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS			
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

Eye contact	In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at
	least 15 minutes. Consult a physician if irritation continues.
Skin contact	Immediately remove all contaminated clothing; flush skin with water for at least 15 minutes.
	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.
Ingestion	In the event of accidental ingestion, rinse mouth with water; obtain medical advice
J	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, whether acute or delayed	Harmful if swallowed. May cause mild skin irritation. May cause slight eye irritation.
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: PF 227 FOAM GRIP FLEXIBLE URETHANE PART A

SECTION 05: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing	"Alcohol" foam, CO2, dry chemical. Water fog. Do not use water in a jet.
Specific hazards arising from the hazardous product, such as the nature of	Thermal decomposition products are toxic. May include:. Oxides of carbon (CO, CO2). Oxides of nitrogen. Bromine. Hydrogen bromide. Dense black smoke.
any hazardous combustion products Special protective equipment and precautions for fire-fighters	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, protectiveIsolate area and keep unauthorized people away. Do not walk through spilled material.equipment and emergency proceduresIsolate 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 upDike 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	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.
Conditions for safe storage, including any	Keep container closed when not in use. Material is hygroscopic and may absorb small
incompatibilities	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	AC TWA	CGIH TLV STEL	OSHA PEL	STEL	NIOSH REL
Poly[oxy(methyl-1,2-ethan ediyl)], a-hydro-w-hydroxy-	Not established	Not established	Not established	Not established	Not established
Appropriate engineering		Provide natural or mechan exposure limits. Local mec contamination, such as op gases and fumes that may ventilation (ie. ACGIH indu adequate ventilation.	chanical exhaust ventil en process equipment be emitted. Standard	ation should be used at t, or during purging ope reference sources rega	sources of air rations, to capture arding industrial
Personal Protective Equi Eye/type Gloves/ type		Chemical safety goggles a Wear skin protection equip the nature of the work to b rubber. Nitrile rubber. Cor	oment. The selection one performed. The following the foll	of skin protection equipm owing gloves are recom	mended :. Butyl
Respiratory/type		rubber. Nitrile rubber. Cor Local exhaust ventilation is when contaminant levels e	s recommended. Wea	r an appropriate, proper ded exposure limits.	ly fitted respirator
Clothing/type		Wear adequate protective	clothes.	·	
Footwear/type Other/type		Safety boots per local regularized Emergency showers and e their hands and face before	eye wash stations shours eye eating, drinking, or u	uld be available. Emplo using tobacco products.	yees should wash

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state Colour	L
Odour Odour threshold (ppm)	M
pH	N
Melting / Freezing point (deg C)	N
Initial boiling point / boiling range (deg C).	N
Flash point (deg C), method	>`
Evaporation rate	N
Flammability (solids and gases)	N
Upper flammable limit (% vol)	N
Lower flammable limit (% vol)	N

Liquid.
Light yellow. Mild odour.
Not available.
No data.
Not available.
Not available.
>100°C, >212°F.
Not available.
Not available.
Not applicable.
No data.
No data.



PRODUCT: PF 227 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)	1.117.
Pounds / USG	9.32 lbs/USG.
Solubility	Negligible.
Partition coefficient — n-octanol/water	Not available.
Auto ignition temperature (deg C)	> 350 °C.
Decomposition temperature	Not available.
Viscosity	Not available.
VOC	0.0 g/L - 0.0 lb/usg.

SECTION 10: STABILITY AND REACTIVITY

Reactivity
Chemical stability
Possibility of hazardous reactions
Conditions to avoid, including static
discharge, shock or vibration
Incompatible materails
Hazardous decomposition products
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Product is stable; hazardous polymerization will not occur. Stable at normal temperatures and pressures. Hazardous polymerization will not occur. Keep away from heat.

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
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-h	nydroxy-	Not determined	500-2000 mg/kg (oral,rat); >10000 mg/kg (dermal, rabbit)
Route of exposure Acute Toxicity Estimate (ATE) Symptoms related to the physical, chemica and toxicological characteristics Effects of acute exposure	ÁTE mix (oral): . 978-2200 mg/kg. al		essive vapours may cause
Effects of chronic exposure Carcinogenicity of material Mutagenicity Reproductive effects Specific Target Organ Toxicity	Not expected to cause any adverse chronic health effects. 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. No data on reproductive effects were found in the literature sources consulted.		

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

regulated. regulated.

TDG Classification IATA Classification (Air) IMDG Classification (Marine) Marine Pollutant Proof of Classification.	Not No.
Proof of Classification	In ac

Not regulated. No. 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 status TSCA inventory status OSHA SARA Title III	
Section 302 - extremely hazardous	None.
substances Section 311/312 - hazard categories	Immediate health.

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PRODUCT: PF 227 FOAM GRIP FLEXIBLE URETHANE PART A

SECTION 15: REGULATORY INFORMATION

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:	
Date of the latest revision of the safety	2020-02-25

est revision of the safety data sheet



SAFETY DATA SHEET

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PRODUCT: PF 227 FOAM GRIP FLEXIBLE URETHANE PART B

FORM

SECTION 01: IDENTIFICATION

Initial supplier identifier	Pro Form Products Ltd. 604 McGeachie Drive Milton, Ontario L9T3Y5 Tel (905) 878-4990 Fax (905) 878-1189
Product identifier	
Recommended use and restrictions on	Paints. for industrial use only-keep out of reach of children .
use	
Chemical family	Mixture. Aromatic isocyanate prepolymer. Health: 3 Fire: 1 Reactivity: 1.
HMIS	
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 **.
	Tor medical emergencies contact your local poison control centre .

SECTION 02: HAZARD IDENTIFICATION



Signal Word Hazard Classification	 Skin Irritation — Category 2. Skin Sensitizer — Category 1. Serious Eye Damage — Category 1. Acute Toxicity (Inhalation) — Category 4. Respiratory Sensitizer — Category 1. Specific Target Organ Toxicity — Single Exposure — Category 3. (respiratory system).
Hazard Description	Specific Target Organ Toxicity — Repeated Exposure — Category 1. 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	

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 75880-28-3 15-40 1,1'-methylenebis [4-isocyanatobenzene] 103837-35-0 15-40 Propanol, [(1-methyl-1,2-ethanediyl)bis(oxy)]bis-, polymer with 1,1'-methylenebis [isocyanatobenzene] 72088-97-2 Diphenylmethanediisicyanate - prepolymer 15-40 Benzene, 1,1'-methylenebis[4-isocyanato- (MDI) 101-68-8 15-40

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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.
Skin contact	Immediately remove all contaminated clothing, flush skin with water for at least 15 minutes. Wash clothing before reuse. 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.
Ingestion	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	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 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	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 may cause explosive rupture.
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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	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: PF 227 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.
Conditions for safe storage, including any incompatibilities	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.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

	4001		00110		NICOLI
INGREDIENTS	TWA	H TLV STEL	PEL OSHA	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



PRODUCT: PF 227 FOAM GRIP FLEXIBLE URETHANE PART B

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

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	Chemical safety goggles and full faceshield if a splash hazard exists. Contact lenses
Gloves/ 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
Respiratory/type	the nature of the work to be performed. The following gloves are recommended :. Nitrile rubber. Butyl rubber. Neoprene. Contact glove supplier for recommendations. Whenever concentrations of isocyanates exceed the exposure limit or are not known, 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
Clothing/type	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.
Footwear/type Other/type	
Medical surveillance	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 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.
Odour threshold (ppm)	Slight. Aromatic odour.
PH	Not available.
Melting / Freezing point (deg C)	No data.
Initial boiling point / boiling range (deg C).	Not available.
Flash point (deg C), method	No data.
Evaporation rate	112. (estimate; lowest flash point ingredient).
Flammability (solids and gases)	Not available.
Upper flammable limit (% vol)	Not available.
Lower flammable limit (% vol)	No data.
Vapour pressure (mm Hg)	No data.
Vapour density (air=1)	No data.
Relative Density (Specific Gravity)	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.
Viscosity	Not available.
VOC.	0.0 g/L - 0.0 lb/usg.

SECTION 10: STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	Contact with moisture, other materials that react with isocyanates, or temperatures above
Conditions to avoid, including static	177C, may cause polymerization. Excessive temperatures. Contact with incompatible substances.
discharge, shock or vibration Incompatible materails	Water, Amines, Strong bases, Alcohols, Copper alloys.

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PRODUCT: PF 227 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 Acute Toxicity Estimate (ATE) Symptoms related to the physical, chemica and toxicological characteristics Effects of acute exposure	Causes skin irritation. (sensitized can experien swelling and rash. Cure discolouration. Causes cause temporary corner exposure limits can irrita tract. This can cause a breathing and reduced bronchial hyperreactiviti symptoms, as well as a bronchitis, bronchial spa pneumonitis, with flu-lik	D mg/kg. ATE mix (dermal):. >6000 Causes reddening, stinging and swe ice an allergic reaction with symptor ed product is difficult to remove. Co eye irritation. Can cause tearing, re al damage. Isocyanate vapour/mists ate (burning sensation) the mucous runny nose, sore throat, coughing, pulmonary functioning. Persons wit y can respond to concentrations bel sthma attack. Exposure well above asm and pulmonary edema. Chemi e symptoms has also been reported ours after exposure. Effects are us	elling. Persons previously ns of reddening, itching, ontact with MDI can cause eddening and swelling. May s at concentrations above the membranes in the respiratory chest discomfort, difficult th pre-existing, nonspecific low the TLV with similar the TLV or PEL may lead to iccal or hypersensitive d. These symptoms can be
Effects of chronic exposure	As a result of previous r develop sensitization w well below the exposure shortness of breath or a that once sensitized, an cold air or other irritants severe cases, for sever exposure may cause lu vapour contact may cau swelling, rash, scaling, lsocyanates are known	repeated overexposure or a single la hich will cause them to react to a late e limit. Symptoms including chest tig asthma attack, could be immediate of individual can experience these sy s. This increased lung sensitivity car al years. Sensitization can be perm ng damage, including a decrease in use conjunctivitis. Prolonged skin co blistering, and in some cases, sensi to cause skin and respiratory sensi piratory sensitization can result from	ter exposure to product at levels ghtness, wheezing, cough, or delayed. There are reports mptoms upon exposure to dust, n persist for weeks and, in anent. Prolonged or repeated lung function. Prolonged ontact may cause reddening, tization. tization in humans. Animal tests
Carcinogenicity of material Mutagenicity Reproductive effects Specific Target Organ Toxicity	This product is not listed The data does not allow No data on reproductiv	d by NTP, IARC or regulated as a c w for an adequate assessment of th e effects were found in the literature ans through prolonged or repeated o	arcinogen by OSHA. e mutagenic effect. e sources consulted.

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 waste in accordance with all applicable federal, provincial/State and local regulations. Industrial incineration is the preferred method. Empty containers retain



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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	
DOT Classification (Road)	
	(MDI)), Class 9, PGIII.
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 status TSCA inventory status OSHA SARA Title III	On Domestic Substances List (DSL). All components are listed. This product is considered hazardous under the OSHA Hazard Communication Standard.
Section 302 - extremely hazardous	None.
substances Section 311/312 - hazard categories Section 313	Immediate health, delayed health. Decabromodiphenyl oxide. Methylene diisocyanate (MDI).
EPA hazardous air pollutants (HAPS) 40CFR63	Methylene Diphenyl Diisocyanate (MDI).
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 data sheet	2020-03-09

