



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

PRODUCT: PF 225 FAST CURE URETHANE WINDSHIELD ADHESIVE (BLACK)

SECTION 01: IDENTIFICATION

Product identifier..... PF 225 FAST CURE URETHANE WINDSHIELD ADHESIVE (BLACK)
Initial supplier identifier..... Pro Form Products Ltd.
604 McGeachie Drive
Milton, Ontario L9T3Y5
Tel (905) 878-4990 Fax (905) 878-1189
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 **.
Recommended use and restrictions on .. No restrictions on use known.
use
Chemical family..... Aromatic isocyanate prepolymer.
Hazard rating

SECTION 02: HAZARD IDENTIFICATION



Hazard Classification..... Skin Corrosion/Irritation — Category 2. Sensitization - Skin — Category 1. Serious Eye Damage/Eye Irritation — Category 2A. Acute Toxicity (Inhalation) — Category 4. Sensitization - Respiratory — Category 1. Specific Target Organ Toxicity — Single Exposure — Category 3. (Respiratory Tract). Carcinogenicity — Category 2. Specific Target Organ Toxicity — Repeated Exposure — Category 2.
Signal Word..... DANGER.
Hazard Description..... H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 This product contains ingredients that are suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure.
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. 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. 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. P308 + P313 If exposed or concerned, get medical advice/attention. P312 Call a POISON CENTER/doctor if you feel unwell. P314 - Get medical advice/attention if you feel unwell. P321 - For specific treatment see section 4 on this SDS. P332 + P313 - If skin irritation occurs get medical attention or advice. 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..... P403 + P233 Store in a well ventilated area. Keep container tightly closed. P405 Store locked up.
Disposal..... P501 Dispose all unused, waste or empty containers in accordance with local regulations.

PRODUCT: PF 225 FAST CURE URETHANE WINDSHIELD ADHESIVE (BLACK)**SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Carbon Black	1333-86-4	1-10
1,2-Cyclohexanedicarboxylicacid, 1,2-diisononyl ester	166412-78-8	10-30
Calcium carbonate	471-34-1	10-30
1,2-Propanediol, polymer with 1,1'-methylenebis[isocyanatobenzene], 2-methyloxirane and oxirane	103837-45-2	30-60

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. Check for and remove any contact lenses, if safe and easy to do so. Consult a physician if irritation continues.
Skin contact.....	Immediately flush skin with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse. If irritation persists, seek medical attention.
Inhalation.....	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the product. If not breathing, give artificial respiration. Obtain immediate medical attention.
Ingestion.....	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately. .
Most important symptoms and effects, whether acute or delayed	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Treat symptomatically and supportively. Symptoms may be delayed.

SECTION 05: FIRE-FIGHTING MEASURES

Suitable extinguishing media.....	Use extinguishing media that is applicable to surrounding fire.
Unsuitable extinguishing media.....	None known.
Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products	Toxic gases and/or vapours may be formed. May expand or decompose explosively when heated or involved in fire.
Special protective equipment and precautions for fire-fighters	Wear self-contained breathing apparatus. Use proper firefighting protective equipment. Evacuate area. Dispose of all runoff water as hazardous waste.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protection equipment. Evacuate personnel to a safe area. Take precautions against static discharge. Ensure adequate ventilation. Remove all sources of ignition. Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions.....	Do not allow product to leak into drains or waterways. If spill does contaminate waterways then inform authorities.
Methods and materials for containment and cleaning up	Soak up with inert material. Keep in suitable container for disposal. Ventilate. Eliminate all sources of ignition. Use non-sparking tools. Inform all applicable Federal, Provincial and Local authorities of any spill.

SECTION 07: HANDLING AND STORAGE

Precautions for safe handling.....	Avoid skin and eye contact. Use adequate ventilation. Wear appropriate protective equipment. Keep container closed when not in use. Keep away from heat, sparks, and open flame. Wash thoroughly after handling. Remove contaminated clothing. Handle in accordance with good industrial hygiene and safety practices.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool, dry and well ventilated area. Store away from all sources of heat and ignition. Store away from incompatible materials. Store in properly labelled containers. Foodstuffs. No incompatible materials are listed. Observe all local, provincial and national regulations.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Carbon Black	3 mg/m3 CA ON: 3 mg/m3 (Inhalable) TWA	Not established	3.5 mg/m3	Not established	3.5 mg/m3
1,2-Cyclohexanedicarboxylicacid, 1,2-diisononyl ester	Not available	Not available	Not available	Not available	Not available

PRODUCT: PF 225 FAST CURE URETHANE WINDSHIELD ADHESIVE (BLACK)**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Calcium carbonate	15 mg/m ³ Not available	Not available	Not available	Not available	TWA (respirable) 5 mg/m ³ TWA (total) 10 mg/m ³
1,2-Propanediol, polymer with 1,1'-methylenebis[isocyan atobenzene], 2-methyloxirane and oxirane	Not available	Not available	Not available	Not available	Not available
Personal Protective Equipment					
Eye/type.....	Chemical safety goggles. Consult your personal protective equipment supplier for additional recommendations.				
Respiratory/type.....	Wear a niosh/msha approved air supply respirator. Consult your personal protective equipment supplier for additional recommendations.				
Gloves/ type.....	Chemical resistant gloves. Consult your personal protective equipment supplier for additional recommendations.				
Clothing/type.....	Wear impervious protective clothing. Consult your personal protective equipment supplier for additional recommendations.				
Footwear/type.....	Wear chemical resistant safety boots. Consult your personal protective equipment supplier for additional recommendations.				
Other/type.....	Eye wash facility and emergency shower should be in close proximity. Employees should wash their hands and face before eating, drinking, or using tobacco products.				
Appropriate engineering controls.....	Ventilate adequately. Use explosion-proof electrical/ventilating/lighting/equipment.				

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical state.....	Paste.
Odour.....	Slight.
Colour.....	Not available.
Odour threshold (ppm).....	Not available.
pH.....	Not applicable.
Melting / Freezing point (deg C)	
Initial boiling point / boiling range (deg C).	> 35.
Flash point (deg C), method.....	> 93°C.
Evaporation rate.....	Not available.
Upper flammable limit (% vol).....	Not available.
Lower flammable limit (% vol).....	Not available.
Vapour pressure (mm Hg).....	Not available.
Vapour density (air=1).....	Not available.
Relative Density (Specific Gravity).....	1.25. to. 1.45. (water = 1).
Solubility.....	Insoluble in water.
Partition coefficient — n-octanol/water.....	Not available.
Auto ignition temperature (deg C).....	Not available.
Decomposition temperature.....	Not available. Particle characteristics.
Viscosity.....	Not applicable.
Particle characteristics.....	Not applicable.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability.....	Stable at normal temperatures and pressures.
Conditions to avoid, including static discharge, shock or vibration	Avoid heat, flame and spark.
Possibility of hazardous reactions.....	Not available.
Hazardous decomposition products.....	Under normal conditions of storage and use, hazardous decomposition products should not be produced. .

PRODUCT: PF 225 FAST CURE URETHANE WINDSHIELD ADHESIVE (BLACK)**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Carbon Black	Not available	>10,000 mg/kg (oral rat) 3,000 mg/kg (dermal rabbit)
1,2-Cyclohexanedicarboxylicacid, 1,2-diisononyl ester	Inhalation 10 mg/m3	Oral > 15400mg/kg (Rat) Dermal > 3000mg/kg (Rabbit)
Calcium carbonate	Not available	Not available
1,2-Propanediol, polymer with 1,1'-methylenebis[isocyanatobenzene], 2-methyloxirane and oxirane	Not available	Not available
Route of exposure.....	Eye contact. Skin contact. Inhalation. Ingestion.	
Symptoms related to the physical, chemical and toxicological characteristics		
Inhalation.....	Not available.	
Ingestion.....	Not available.	
Eye contact.....	Not available.	
Skin contact.....	Not available.	
Effects of acute exposure.....	Not available.	
Skin corrosion/irritation.....	Causes skin irritation.	
Serious eye damage/eye irritation.....	Causes serious eye irritation.	
Skin Sensitization.....	May cause an allergic skin reaction.	
Respiratory Sensitization.....	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
STOT-SE.....	May cause respiratory irritation.	
STOT-RE.....	May cause damage to organs.	
Carcinogenicity.....	Not available.	
Reproductive effects.....	Did not meet classification criteria.	
Mutagenicity.....	Did not meet classification criteria.	
Aspiration Hazard.....	Did not meet classification criteria.	

SECTION 12: ECOLOGICAL INFORMATION

Environmental.....	Carbon black -CAS # 1333-86-4 - LC50:>1000mg/L (96h)(Fish) . 1,2-Cyclohexanedicarboxylicacid,1,2-diisononyl ester - CAS # 166412-78-8 - LC50:>100mg/L (96h)(Fish). Diphenylmethane-4,4'-diisocyanate - CAS # 101-68-8 - LC50:1000mg/L (96h)(Fish).
Persistence and degradability.....	Diphenylmethane-4,4'-diisocyanate - CAS # 101-68-8 - Persistence Water/Soil - Low(Half-life = 1 days) - Persistence Air - Low(Half-life = 0.24 days).
Bioaccumulative potential.....	Diphenylmethane-4,4'-diisocyanate - CAS # 101-68-8 - Potential Low - BCF=15.
Mobility in soil.....	Diphenylmethane-4,4'-diisocyanate - CAS # 101-68-8 - Potential Low - 376200 (Koc).

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.
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SECTION 14: TRANSPORT INFORMATION

TDG Classification.....	Not regulated.
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.....	The following substances are NOT on the DSL and will be subject to import restrictions: (CAS # 166412-78-8). (CAS # 103837-45-2). The balance of the substances are on the DSL.
Categorization of the DSL.....	Some components met the criteria under subsection 73(1) of CEPA during categorization of the DSL. Please check to see if this affects your company. (CAS # 1333-86-4).
TSCA inventory status.....	All components are either listed or exempt from the TSCA. .
OSHA.....	This product is considered hazardous under the OSHA Hazard Communication Standard.
SARA Title III	

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SECTION 15: REGULATORY INFORMATION

Section 302 - extremely hazardous substances None.

Section 311/312 - hazard categories..... Immediate health, delayed health.

Section 313..... Methylene diisocyanate (MDI). Polymeric diphenylmethane diisocyanate.

EPA hazardous air pollutants (HAPS) Methylene Diphenyl Diisocyanate (MDI).

40CFR63

California Proposition 65..... *WARNING: This product contains a chemical known to the State of California to cause cancer. (Carbon black (C)).

SECTION 16: OTHER INFORMATION

Prepared by: REGULATORY AFFAIRS.

Telephone number:..... (800) 387-7981.

Disclaimer:..... 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.

Review Date:..... 2022-11-30.

Date of the latest revision of the safety .. 2023-12-10

data sheet