

Permatex Canada, Inc.
8450 Lawson Road, Unit 1
Milton, ON Canada L9T 0A4
Telephone: 1-87-Permatex
(877) 376-2839
Urgence: 800-255-3924 (ChemTel)

Canadian Workplace Hazardous Materials Information System Material Safety Data Sheet

I. PRODUCT IDENTIFICATION

Product Name: 81668 STRIPPED THREAD REPAIR PART 1
Item No: 390220D
Product Type: Adhesive

II. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
ETHOXYLATED BISPHENOL A DIMETHACRYLATE 24448-20-2	50-70	not available	not available	
ALUMINIUM POWDER 7429-90-5	20-40	not available	not available	1 mg/m ³
ACRYLIC ACID 79-10-7	<5	33.5 mg/kg	3.6 mg/L/4H; 1202 ppm/4H	2 ppm
TETRAHYDROFURFURYL METHACRYLATE 2455-24-5	<5	not available	not available	

III. PHYSICAL DATA

Physical State/Appearance: Grey liquid
Odour & Odour Threshold: Mild odour
Specific Gravity: 1.39
Evaporation Rate: Not determined
Vapour Pressure: Not determined
Vapour Density: Heavier than air
Freezing Point: Not determined
pH: Does not apply
Octanol/Water Coefficient: Not determined
Boiling Point: >150°C

IV. FIRE AND EXPLOSIVE DATA

Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.
Hazardous Combustion Products: Irritating organic vapours., Oxides of carbon, Oxides of nitrogen
Sensitivity to Static Discharge: Sensitivity to static discharge is not expected.
Conditions of Flammability: None anticipated.
Flash Point/Range: >95°C COC
Autoignition Temperature: Not determined
Upper Explosive Limit: Acrylic acid: 8.0%
Lower Explosive Limit: Acrylic acid: 2.0%

V. REACTIVITY DATA

Conditions Causing Chemical Instability: None
Materials to avoid: Strong oxidizers, free radical initiators, inert gases
Conditions of Reactivity: None
Hazardous Decomposition Products: Carbon oxides, Oxides of nitrogen

VI. HAZARDS IDENTIFICATION

Primary Routes of Exposure: Eye and skin contact, ingestion, inhalation
Existing Conditions Aggravated by Exposure: Acrylic acid: Upper respiratory and lung diseases, dermatitis
Toxicity Information: (See Effects of Acute Exposure to Product)

Effects of Acute Exposure: May cause eye and skin irritation. May irritate respiratory system upon frequent or prolonged use.
Effects of Chronic Exposure: May cause an allergic skin reaction.

VI. HAZARDS IDENTIFICATION

Irritancy of Product: Irritation of eyes, skin, nose and throat. May cause dermatitis on prolonged contact in sensitive individuals.
Sensitization to Product: (See Effects of Acute Exposure to Product)
Carcinogenicity: (See Effects of Chronic Exposure to Product)
Reproductive Toxicity: (See Effects of Chronic Exposure to Product)
Teratogenicity: (See Effects of Chronic Exposure to Product)
Mutagenicity: (See Effects of Chronic Exposure to Product)
Toxicologically Synergistic Products: None known
WHMIS Hazard Class: D2B TOXIC MATERIALS

VII. PREVENTATIVE MEASURES

Personal Protection

Eyes: Safety glasses.
Skin: Neoprene or nitrile gloves recommended.
Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product. In case of insufficient ventilation, wear an organic vapor respirator.
Engineering Controls: In case of insufficient ventilation, wear an organic vapor respirator.
Spill Procedures: Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.
Protection of Man and Environment: Follow Canadian and local regulations for disposal.
Handling Procedures and Equipment: Store in a dry area below 35°C.
Special Handling Information: Avoid prolonged breathing of vapor. Keep away from eyes. Avoid prolonged contact with skin. Do not smoke while using. Wash hands after use.

VIII. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation: Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Obtain medical attention.
Skin Contact: Wash off with soap and water. If skin irritation persists, call a physician.
Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

IX. SHIPPING INFORMATION

Canadian Transportation of Dangerous Goods

Proper Shipping Name: Not regulated
Hazard Class: None
UN/ID No: None

IATA

Proper Shipping Name: Not regulated
Class or Division: None
UN/ID Number: None

IMDG

Proper Shipping: Not regulated
Hazard Class: None
UN Number: None

X. PREPARATION INFORMATION

Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 1, PHYSICAL HAZARD 0
HMIS is a registered trademark of the National Paint and Coatings Assn.

Estimated NFPA Rating: HEALTH 2, FLAMMABILITY 1, REACTIVITY 1
NFPA is a registered trademark of the National Fire Protection Assn.

Prepared By: Denise Boyd, Manager-Environmental, Health & Safety

Revision Date: December 20, 2010

Company:
Permatex Canada, Inc. 8450 Lawson Rd. Unit 1, Milton, ON L9T 0A4

Revision Number: 2

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Canadian Workplace Hazardous Materials Information System Material Safety Data Sheet

I. PRODUCT IDENTIFICATION

Product Name: 81668 STRIPPED THREAD REPAIR PART 2
Item No: 390222D
Product Type: Activator

II. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
ETHOXYLATED BISPHENOL A DIMETHACRYLATE 24448-20-2	50-70	not available	not available	
ALUMINIUM POWDER 7429-90-5	20-40	not available	not available	1 mg/m ³
TETRAHYDROFURFURYL METHACRYLATE 2455-24-5	<5	not available	not available	

III. PHYSICAL DATA

Physical State/Appearance: Blue-grey liquid
Odour & Odour Threshold: Mild odour
Specific Gravity: 1.37
Evaporation Rate: Not determined
Vapour Pressure: <5 mmHg @ 21°C
Vapour Density: Heavier than air
Freezing Point: Not determined
pH: Does not apply
Octanol/Water Coefficient: Not determined
Boiling Point: >150°C

IV. FIRE AND EXPLOSIVE DATA

Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.
Hazardous Combustion Products: Irritating organic vapours, Oxides of carbon, Oxides of nitrogen
Sensitivity to Static Discharge: Sensitivity to static discharge is not expected.
Conditions of Flammability: None anticipated.
Flash Point/Range: >95°C COC
Autoignition Temperature: Not determined
Upper Explosive Limit: Not determined
Lower Explosive Limit: Not determined

V. REACTIVITY DATA

Conditions Causing Chemical Instability: None
Materials to avoid: Strong oxidizers, free radical initiators, inert gases
Conditions of Reactivity: None
Hazardous Decomposition Products: Carbon oxides, Oxides of nitrogen

VI. HAZARDS IDENTIFICATION

Primary Routes of Exposure: Eye and skin contact, ingestion, inhalation
Existing Conditions Aggravated by Exposure: Individuals with respiratory problems such as emphysema and asthma should avoid inhalation
Toxicity Information: (See Effects of Acute Exposure to Product)
Effects of Acute Exposure: May cause eye, skin and respiratory irritation. May cause skin sensitization.
Effects of Chronic Exposure: May cause an allergic skin reaction.
Irritancy of Product: Irritation of eyes, skin, nose and throat. May cause dermatitis on prolonged contact in sensitive individuals.
May cause nausea, vomiting, pain and stomach upset.

VI. HAZARDS IDENTIFICATION

Sensitization to Product: (See Effects of Acute Exposure to Product)
Carcinogenicity: (See Effects of Chronic Exposure to Product)
Reproductive Toxicity: (See Effects of Chronic Exposure to Product)
Teratogenicity: (See Effects of Chronic Exposure to Product)
Mutagenicity: (See Effects of Chronic Exposure to Product)
Toxicologically Synergistic Products: None known
WHMIS Hazard Class: D2B TOXIC MATERIALS

VII. PREVENTATIVE MEASURES

Personal Protection

Eyes: Safety glasses.
Skin: Neoprene or nitrile gloves recommended.
Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product. In case of insufficient ventilation, wear an organic vapor respirator.
Engineering Controls: Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.
Spill Procedures: Follow Canadian and local regulations for disposal.
Protection of Man and Environment: Store in a dry area below 35°C.
Handling Procedures and Equipment: Avoid prolonged breathing of vapor. Keep away from eyes. Avoid prolonged contact with skin. Do not smoke while using. Wash hands after use.
Special Handling Information:

VIII. FIRST AID MEASURES

Ingestion: If swallowed, DO NOT induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation: Move to fresh air in case of accidental inhalation of vapours. Obtain medical attention.
Skin Contact: Wash off with soap and water. If skin irritation persists, call a physician.
Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

IX. SHIPPING INFORMATION

Canadian Transportation of Dangerous Goods

Proper Shipping Name: Not regulated
Hazard Class: None
UN/ID No: None

IATA

Proper Shipping Name: Not regulated
Class or Division: None
UN/ID Number: None

IMDG

Proper Shipping: Not regulated
Hazard Class: None
UN Number: None

X. PREPARATION INFORMATION

Estimated HMIS Classification: HEALTH 2, FLAMMABILITY 1, PHYSICAL HAZARD 0
HMIS is a registered trademark of the National Paint and Coatings Assn.

Estimated NFPA Rating: HEALTH 2, FLAMMABILITY 1, REACTIVITY 1
NFPA is a registered trademark of the National Fire Protection Assn.

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Canadian Workplace Hazardous Materials Information System Material Safety Data Sheet

I. PRODUCT IDENTIFICATION

Product Name: 81668 FORM-A-THREAD STRIPPED THREAD REPAIR PART 3
Item No: 390505D
Product Type: Release agent

II. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
WATER 7732-18-5	>75	not available	not available	
POLYDIMETHYLSILOXANE 63148-62-9	<10	>17 g/kg	not available	

III. PHYSICAL DATA

Physical State/Appearance: Blue liquid
Odour & Odour Threshold: None
Specific Gravity: 1.0
Evaporation Rate: <1 (butyl acetate = 1)
Vapour Pressure: Not determined
Vapour Density: Heavier than air
Freezing Point: Not determined
pH: 9-11
Octanol/Water Coefficient: Not determined
Boiling Point: 100°C (212°F)

IV. FIRE AND EXPLOSIVE DATA

Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.
Hazardous Combustion Products: Irritating organic vapours, Traces of formaldehyde.
Sensitivity to Static Discharge: Sensitivity to static discharge is not expected.
Conditions of Flammability: None anticipated.
Flash Point/Range: None
Autoignition Temperature: Not determined
Upper Explosive Limit: Not determined
Lower Explosive Limit: Not determined

V. REACTIVITY DATA

Conditions Causing Chemical Instability: None
Materials to avoid: None reasonably foreseeable
Conditions of Reactivity: None
Hazardous Decomposition Products: Carbon oxides, Silicon oxides, Formaldehyde

VI. HAZARDS IDENTIFICATION

Primary Routes of Exposure: Eye and skin contact, ingestion, inhalation
Existing Conditions Aggravated by Exposure: None known
Toxicity Information: (See Effects of Acute Exposure to Product)
Effects of Acute Exposure: May cause eye and skin irritation.
Effects of Chronic Exposure: None known.
Irritancy of Product: Minor components may cause irritation of eyes and skin.
Sensitization to Product: (See Effects of Acute Exposure to Product)
Carcinogenicity: (See Effects of Chronic Exposure to Product)
Reproductive Toxicity: (See Effects of Chronic Exposure to Product)
Teratogenicity: (See Effects of Chronic Exposure to Product)

VI. HAZARDS IDENTIFICATION

Mutagenicity: (See Effects of Chronic Exposure to Product)
Toxicologically Synergistic Products: None known
WHMIS Hazard Class: Non-controlled

VII. PREVENTATIVE MEASURES

Personal Protection

Eyes: Safety glasses.
Skin: Neoprene or nitrile gloves recommended.
Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.
Engineering Controls: No special precautions required
Spill Procedures: Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.
Protection of Man and Environment: Follow Canadian and local regulations for disposal.
Handling Procedures and Equipment: Store in a dry area below 35°C. Protect from freezing.
Special Handling Information: Avoid prolonged breathing of vapor. Keep away from eyes. Avoid prolonged contact with skin. Do not smoke while using. Wash hands after use.

VIII. FIRST AID MEASURES

Ingestion: If swallowed, DO NOT induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation: None reasonably foreseeable.
Skin Contact: Wash off with soap and water. If skin irritation persists, call a physician.
Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

IX. SHIPPING INFORMATION

Canadian Transportation of Dangerous Goods

Proper Shipping Name: Not regulated
Hazard Class: None
UN/ID No: None

IATA

Proper Shipping Name: Not regulated
Class or Division: None
UN/ID Number: None

IMDG

Proper Shipping: Not regulated
Hazard Class: None
UN Number: None

X. PREPARATION INFORMATION

Estimated HMIS Classification: HEALTH 1, FLAMMABILITY 0, PHYSICAL HAZARD 0
HMIS is a registered trademark of the National Paint and Coatings Assn.

Estimated NFPA Rating: HEALTH 1, FLAMMABILITY 0, REACTIVITY 0
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