

Permatex Europe
Unit 3, Express Park,
Shipton Way, Northampton Road,
Rushden, Northamptonshire
NN10 6GK UK
Ph: 0870 4589545

SAFETY DATA SHEET
according to REACH regulation 1907/2006

1. IDENTIFICATION OF THE PREPARATION

Identification of the preparation: **81668 STRIPPED THREAD REPAIR PART 1**
Item No: **390220D**
Recommended use: **Adhesive**

2. HAZARDS IDENTIFICATION

Classification: Xi - Irritant, N - Dangerous for the environment
Most Important Hazards: Irritating to eyes and skin. May cause irritation of respiratory tract. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	EC Number	EU Classification
ETHOXYLATED BISPHENOL A DIMETHACRYLATE 24448-20-2	50-70	246-263-7	N; R50/53
ALUMINIUM POWDER 7429-90-5	20-40	231-072-3	F; R15-17
ACRYLIC ACID 79-10-7	<5	201-177-9	R10 Xn; R20/21/22 C; R35 N; R50
TETRAHYDROFURFURYL METHACRYLATE 2455-24-5	<5	219-529-5	None
SILICON DIOXIDE, AMORPHOUS 112945-52-5	<5	231-545-4	None

4. FIRST-AID MEASURES

General advice: If you feel unwell, seek medical advice (show the label where possible).
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 the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion: If swallowed, seek medical advice immediately and show this container or label.
Protection of first-aiders: Use personal protective equipment. Avoid contact with skin, eyes and clothing.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide (CO₂), Dry chemical, foam

5. FIRE-FIGHTING MEASURES

Extinguishing media which must not be used for safety reasons: Water.

Special instructions for protection and hygiene: Keep from any possible contact with water, because of reaction and possible flash fire.

Special protective equipment for firefighters: Use personal protective equipment. Avoid contact with eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: For additional information on processing see sections 7, 8 and 11 of this safety data sheet.

Environmental Precautions: Do not flush into surface water or sanitary sewer system.

Cleanup: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

Handling precautions: Avoid breathing vapors or mists. Avoid contact with the skin and the eyes. Wash hands before breaks and immediately after handling the product.

Storage: Store in cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	ACGIH; TLV-TWA	German MAK; TWA	UK WEL; TWA	Finnish OEL; HTP
ETHOXYLATED BISPHENOL A DIMETHACRYLATE 24448-20-2	Not listed	Not listed	Not listed	Not listed
ALUMINIUM POWDER 7429-90-5	1 mg/m ³	1.5 mg/m ³	4 mg/m ³	Not listed
ACRYLIC ACID 79-10-7	2 ppm	10 ppm; 30 mg/m ³	Not listed	8h: 2 ppm; 6 mg/m ³ 15 min: 15 ppm, 45 mg/m ³
TETRAHYDROFURFURYL METHACRYLATE 2455-24-5	Not listed	Not listed	Not listed	Not listed
SILICON DIOXIDE, AMORPHOUS 112945-52-5	5 mg/m ³ , TWA	4 mg/m ³ , TWA	6 mg/m ³ , TWA	8h: 5 mg/m ³

Ventilation: Provide adequate ventilation .

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Skin: Neoprene or nitrile gloves recommended.

Eyes: Safety glasses

Hygiene Measures: When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Grey liquid

Odor: MILD

pH: Does not apply

Boiling point/range: >150°C

Melting point: Not determined

Flash point: >95°C

Risk of explosion: None reasonably foreseeable.

Vapor pressure: <5 mm Hg

Density: 1.39

Solubility in water: Slight

9. PHYSICAL AND CHEMICAL PROPERTIES

Partition coefficient (n-octanol/water): Not determined
Vapor density: Not determined
Evaporation Rate: Not determined
VOC Content(%): <10%

10. STABILITY/REACTIVITY

Stability: Stable under normal conditions.
Conditions to Avoid: Heat
Materials to avoid: Strong oxidizers, free radical initiators, inert gases
Hazardous decomposition products: Carbon oxides, nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat
ACRYLIC ACID 79-10-7	<5	33.5 mg/kg	3.6 mg/L/4H; 1202 ppm/4H
SILICON DIOXIDE, AMORPHOUS 112945-52-5	<5	3160 mg/kg	

Local Effects

Skin Irritation: May cause skin irritation and/or dermatitis.
Eye Irritation: Irritating, but will not permanently injure eye tissue..
Inhalation: May cause irritation of respiratory tract.
Ingestion: Irritating to mouth, throat and stomach.
Sensitization: None reasonably foreseeable.
Chronic toxicity: None reasonably foreseeable

Specific Effects

Carcinogenic effects: None reasonably foreseeable.
Mutagenic effects: None reasonably foreseeable.
Reproductive toxicity: None reasonably foreseeable
Target Organ Effects: Eyes, Skin, Respiratory System

12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Waste from Residues: According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

14. TRANSPORT INFORMATION

IATA

Proper Shipping Name: Not regulated
Hazard Class: Not applicable
UN/ID No: Not applicable

IMDG

Proper shipping name: Not applicable
Hazard Class: Not applicable
UN/ID No: Not applicable
Marine Pollutant: None

14. TRANSPORT INFORMATION

ADR/RID

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s., (methacrylate ester)
Hazard Class: Class 9, PGIII
UN/ID No: UN 3082
ADR/RID: Limited Quantity; LQ7

15. REGULATORY INFORMATION

This product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of Danger:

Xi - Irritant, N - Dangerous for the environment

R -phrase(s):

R36/37/38 - Irritating to eyes, respiratory system and skin

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S -phrase(s):

S 2 - Keep out of the reach of children

S24/25 - Avoid contact with skin and eyes

S37 - Wear suitable gloves

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets

16. OTHER INFORMATION

Risk Phrases mentioned in Section 2:

R10 - Flammable.

R15 - Contact with water liberates extremely flammable gases.

R17 - Spontaneously flammable in air.

R35 - Causes severe burns.

R50 - Very toxic to aquatic organisms.

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

Company: Permatex, Inc. 10 Columbus
Blvd. Hartford, CT USA 06106

Telephone: 877-376-2839

Revision Date: January/30/2008

Revision Number: 8

Permatex Europe
Unit 3, Express Park,
Shipton Way, Northampton Road,
Rushden, Northamptonshire
NN10 6GK UK
Ph: 0870 4589545

SAFETY DATA SHEET
according to REACH regulation 1907/2006

1. IDENTIFICATION OF THE PREPARATION

Identification of the preparation: 81668 STRIPPED THREAD REPAIR PART 2
Item No: 390222D
Recommended use: Activator

2. HAZARDS IDENTIFICATION

Classification: N - Dangerous for the environment
Most Important Hazards: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	EC Number	EU Classification
ETHOXYLATED BISPHENOL A DIMETHACRYLATE 24448-20-2	50-70	246-263-7	N;R50/53
ALUMINIUM POWDER 7429-90-5	20-40	231-072-3	F;R15-17
SILICON DIOXIDE, AMORPHOUS 112945-52-5	<5	231-545-4	None
TETRAHYDROFURFURYL METHACRYLATE 2455-24-5	<5	219-529-5	None

4. FIRST-AID MEASURES

General advice: If you feel unwell, seek medical advice (show the label where possible).
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 the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion: If swallowed, seek medical advice immediately and show this container or label.
Protection of first-aiders: Use personal protective equipment. Avoid contact with skin, eyes and clothing.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide (CO₂), Dry chemical, foam
Extinguishing media which must not be used for safety reasons: Water.
Special instructions for protection and hygiene: Keep from any possible contact with water, because of reaction and possible flash fire.

5. FIRE-FIGHTING MEASURES

Special protective equipment for firefighters: Use personal protective equipment. Avoid contact with eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: For additional information on processing see sections 7, 8 and 11 of this safety data sheet.

Environmental Precautions: Do not flush into surface water or sanitary sewer system.

Cleanup: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

Handling precautions: Avoid breathing vapors or mists. Avoid contact with the skin and the eyes. Wash hands before breaks and immediately after handling the product.

Storage: Store in cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	ACGIH; TLV-TWA	German MAK; TWA	UK WEL; TWA	Finnish OEL; HTP
ETHOXYLATED BISPHENOL A DIMETHACRYLATE 24448-20-2	Not listed	Not listed	Not listed	Not listed
ALUMINIUM POWDER 7429-90-5	1 mg/m ³	1.5 mg/m ³	4 mg/m ³	Not listed
SILICON DIOXIDE, AMORPHOUS 112945-52-5	5 mg/m ³ , TWA	4 mg/m ³ , TWA	6 mg/m ³ , TWA	8h: 5 mg/m ³
TETRAHYDROFURFURYL METHACRYLATE 2455-24-5	Not listed	Not listed	Not listed	Not listed

Ventilation: Provide adequate ventilation .

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Skin: Neoprene or nitrile gloves recommended.

Eyes: Safety glasses

Hygiene Measures: When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue liquid

Odor: MILD

pH: Does not apply

Boiling point/range: >150°C

Melting point: Not determined

Flash point: >95°C

Risk of explosion: None reasonably foreseeable.

Vapor pressure: <5 mm Hg

Density: 1.37

Solubility in water: Slight

Partition coefficient (n-octanol/water): Not determined

Vapor density: Not determined

Evaporation Rate: Not determined

VOC Content(%): <5%

10. STABILITY/REACTIVITY

Stability: Stable under normal conditions.
Conditions to Avoid: Heat
Materials to avoid: Strong oxidizers, free radical initiators, inert gases
Hazardous decomposition products: Carbon oxides, nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat
SILICON DIOXIDE, AMORPHOUS 112945-52-5	<5	3160 mg/kg	

Local Effects

Skin Irritation: May cause skin irritation and/or dermatitis.
Eye Irritation: Irritating, but will not permanently injure eye tissue..
Inhalation: May cause irritation of respiratory tract.
Ingestion: Irritating to mouth, throat and stomach.
Sensitization: None reasonably foreseeable.
Chronic toxicity: None reasonably foreseeable

Specific Effects

Carcinogenic effects: None reasonably foreseeable.
Mutagenic effects: None reasonably foreseeable.
Reproductive toxicity: None reasonably foreseeable
Target Organ Effects: Eyes, Skin, Respiratory System

12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Waste from Residues: According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

14. TRANSPORT INFORMATION

IATA

Proper Shipping Name: Not regulated
Hazard Class: Not applicable
UN/ID No: Not applicable

IMDG

Proper shipping name: Not applicable
Hazard Class: Not applicable
UN/ID No: Not applicable
Marine Pollutant: None

ADR/RID

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s., (methacrylate ester)
Hazard Class: Class 9, PGIII
UN/ID No: UN 3082
ADR/RID: Limited Quantity; LQ7

15. REGULATORY INFORMATION

This product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of Danger:

N - Dangerous for the environment

R -phrase(s):

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S -phrase(s):

S 2 - Keep out of the reach of children

S24/25 - Avoid contact with skin and eyes

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets

16. OTHER INFORMATION

Risk Phrases mentioned in Section 2:

R15 - Contact with water liberates extremely flammable gases.

R17 - Spontaneously flammable in air.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

Company: Permatex, Inc. 10 Columbus
Blvd. Hartford, CT USA 06106

Telephone: 877-376-2839

Revision Date: January/30/2008

Revision Number: 7

Permatex Europe
Unit 3, Express Park,
Shipton Way, Northampton Road,
Rushden, Northamptonshire
NN10 6GK UK
Ph: 0870 4589545

SAFETY DATA SHEET
according to REACH regulation 1907/2006

1. IDENTIFICATION OF THE PREPARATION

Identification of the preparation: 81668 FORM-A-THREAD STRIPPED THREAD REPAIR PART 3
Item No: 390505D
Recommended use: Coating

2. HAZARDS IDENTIFICATION

Classification: None
Most Important Hazards: None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	EC Number	EU Classification
WATER 7732-18-5	>75	231-791-2	None
POLYDIMETHYLSILOXANE 63148-62-9	1-10	Not determined	None

4. FIRST-AID MEASURES

General advice: If you feel unwell, seek medical advice (show the label where possible).
Inhalation: None reasonably foreseeable.
Skin Contact: Wash off with soap and water. If skin irritation persists, call a physician.
Eye Contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion: If swallowed, seek medical advice immediately and show this container or label.
Protection of first-aiders: Avoid contact with skin, eyes and clothing.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide (CO₂), Dry chemical, water spray, foam
Extinguishing media which must not be used for safety reasons: None reasonably foreseeable.
Special instructions for protection and hygiene: No hazards to be specially mentioned.
Special protective equipment for firefighters: Avoid contact with eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: For additional information on processing see sections 7, 8 and 11 of this safety data sheet.
Environmental Precautions: Do not flush into surface water or sanitary sewer system.
Cleanup: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

Handling precautions: Avoid contact with the skin and the eyes. Wash hands before breaks and immediately after handling the product.

Storage: Do not freeze.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	ACGIH; TLV-TWA	German MAK; TWA	UK WEL; TWA	Finnish OEL; HTP
WATER 7732-18-5	Not listed	Not listed	Not listed	Not listed
POLYDIMETHYLSILOXANE 63148-62-9	Not listed	Not listed	Not listed	Not listed

Ventilation: Provide adequate ventilation .

Respiratory Protection: Not required under normal use.

Skin: Neoprene or nitrile gloves recommended.

Eyes: Safety glasses

Hygiene Measures: When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue liquid

Odor: NONE

pH: 9-11

Boiling point/range: 100°C

Melting point: Not determined

Flash point: None

Risk of explosion: None reasonably foreseeable.

Vapor pressure: Not determined

Density: 1.0

Solubility in water: Soluble

Partition coefficient (n-octanol/water): Not determined

Vapor density: <1 (Air = 1.0)

Evaporation Rate: <1 (butyl acetate = 1)

VOC Content(%): 0

10. STABILITY/REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: Heat

Materials to avoid: None reasonably foreseeable

Hazardous decomposition products: Carbon oxides

11. TOXICOLOGICAL INFORMATION

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat
POLYDIMETHYLSILOXANE 63148-62-9	1-10	>17 g/kg	

Local Effects

Skin Irritation: May cause skin irritation and/or dermatitis.

Eye Irritation: Irritating, but will not permanently injure eye tissue..

Inhalation: Not hazardous by inhalation

Ingestion: None reasonably foreseeable

Sensitization: None reasonably foreseeable.

Chronic toxicity: None reasonably foreseeable

Specific Effects

Carcinogenic effects: May form formaldehyde at high temperatures.
Mutagenic effects: None reasonably foreseeable.
Reproductive toxicity: None reasonably foreseeable
Target Organ Effects: Eyes, Skin

12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available

13. DISPOSAL CONSIDERATIONS

Waste from Residues: According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

14. TRANSPORT INFORMATION

IATA

Proper Shipping Name: Not regulated
Hazard Class: Not applicable
UN/ID No: Not applicable

IMDG

Proper shipping name: Not applicable
Hazard Class: Not applicable
UN/ID No: Not applicable
Marine Pollutant: None

ADR/RID

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

15. REGULATORY INFORMATION

This product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of Danger:
None

R -phrase(s):

None

S -phrase(s):

S 2 - Keep out of the reach of children
S24/25 - Avoid contact with skin and eyes

16. OTHER INFORMATION

Risk Phrases mentioned in Section 2:

None

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

Company: Permatex, Inc. 10 Columbus
Blvd. Hartford, CT USA 06106

Telephone: 877-376-2839

Revision Date: January/30/2008

Revision Number: 5