

MATERIAL SAFETY
DATA SHEET

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DIVISION: AUTOMOTIVE AFTERMARKET**TRADE NAME:**

3M(TM) Rigid Parts Repair Material - Adhesive (Part A)/3M(TM) P.R.O.
Bond Adhesive (Part A), P.N. 05898

ISSUED: OCTOBER 2, 1998**SUPERSEDES:** NOVEMBER 26, 1997**DOCUMENT:** 11-0397-7

1. INGREDIENT	C.A.S. NO.	PERCENT
MERCAPTAN-TERMINATED POLYMER - NJ Trade Secret Registry No. 679485- 5016P	TradeSecret	30.0 - 60.0
ACRYLONITRILE-BUTADIENE POLYMER	68683-29-4	10.0 - 20.0
TALC	14807-96-6	10.0 - 20.0
TRIS(2,4,6-DIMETHYLAMINOMONOMETHYL) PHENOL	90-72-2	1.0 - 5.0
CASTOR OIL DERIVATIVE	TradeSecret	1.0 - 5.0
DIETHYLENETRIAMINE	111-40-0	1.0 - 5.0
PHENOL, 4,4'-(1-METHYLETHYLIDENE) BIS-, POLYMER CHLOROMETHYL)OXIRANE .	68610-56-0	1.0 - 5.0
N-AMINOETHYLPIPERAZINE	140-31-8	< 1.0

NOTE: The components of this product are in compliance with the chemical notification requirements of TSCA.

NOTE: Part A is used with Part B (Document 11-0398-5).

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND 40 CFR PART 372:

TALC

2. PHYSICAL DATA

BOILING POINT:.....	N/A
VAPOR PRESSURE:.....	N/D
VAPOR DENSITY:.....	N/D
EVAPORATION RATE:.....	N/D
SOLUBILITY IN WATER:	nil
SP. GRAVITY:.....	1.100-1.300 Water = 1 ASTM
PERCENT VOLATILE:	0.00 %
pH:	N/D
VISCOSITY:	1MM-3MM CPS
MELTING POINT.....	N/D

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MSDS: 3M(TM) Rigid Parts Repair Material - Adhesive (Part A)/3M(TM) P.R.O.
Bond Adhesive (Part A), P.N. 05898
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2. PHYSICAL DATA (continued)

APPEARANCE AND ODOR: Paste, yellow, mercaptan odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... > 200.00 F

FLAMMABLE LIMITS - LEL: N/D

FLAMMABLE LIMITS - UEL: N/D

AUTOIGNITION TEMPERATURE: ... N/D

EXTINGUISHING MEDIA:

Water, Carbon dioxide, Dry chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None known.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 0 REACTIVITY: 1

UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS TO AVOID:

Not applicable.

HAZARDOUS POLYMERIZATION: Will Not Occur

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen, Oxides of Sulfur, Toxic Vapors, Gases or Particulates.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Collect spilled material. Place in a closed container.

RECOMMENDED DISPOSAL:

Cure product according to product instructions. Dispose of completely cured (or polymerized) material in a sanitary landfill. Disposal alternative: Incinerate in an industrial or commercial facility.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: N/A.

VOC Less H2O & Exempt Solvents: N/D.

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MSDS: 3M(TM) Rigid Parts Repair Material - Adhesive (Part A)/3M(TM) P.R.O.
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5. ENVIRONMENTAL INFORMATION (continued)

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

EPCRA HAZARD CLASS:**FIRE HAZARD:** No **PRESSURE:** No **REACTIVITY:** Yes **ACUTE:** Yes **CHRONIC:** Yes

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:

Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

Do not induce vomiting. Drink two glasses of water. Call a physician.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Wear vented goggles. Wear safety glasses with side shields.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: butyl rubber, polyethylene/ethylene vinyl alcohol, polytetrafluoroethylene (Teflon), fluoroelastomer (Viton).

VENTILATION PROTECTION:

Provide appropriate local exhaust for grinding, cutting or sanding cured material. Use in a well-ventilated area. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:

Avoid prolonged breathing of vapors. Avoid breathing of dust created by cutting, sanding or grinding. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask dust respirator.

PREVENTION OF ACCIDENTAL INGESTION:

Do not eat, drink or smoke when using this product. Wash exposed

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7. PRECAUTIONARY INFORMATION (continued)

areas thoroughly with soap and water. Do not ingest.

RECOMMENDED STORAGE:

Store away from heat. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Not applicable.

INGREDIENTS	EXPOSURE LIMITS		TYPE	AUTH	SKIN*
	VALUE	UNIT			
MERCAPTAN-TERMINATED POLYMER - NJ Trade Secret Registry No. 679485- 5016P	NONE	NONE	NONE	NONE	
ACRYLONITRILE-BUTADIENE POLYMER	NONE	NONE	NONE	NONE	
TALC	2	mg/m ³	TWA	OSHA	
	as respirable dust				
TALC	2	mg/m ³	TWA	ACGIH	
	as respirable dust				
TRIS(2,4,6-DIMETHYLAMINOMONOMETHYL) PHENOL	5	ppm	TWA	CMRG	
TRIS(2,4,6-DIMETHYLAMINOMONOMETHYL) PHENOL	5	ppm	TWA	CMRG	Y
CASTOR OIL DERIVATIVE	NONE	NONE	NONE	NONE	
DIETHYLENETRIAMINE	1	ppm	TWA	ACGIH	Y
DIETHYLENETRIAMINE	1	ppm	TWA	OSHA	Y
PHENOL, 4,4'-(1-METHYLETHYLIDENE) BIS-, POLYMER CHLOROMETHYL)OXIRANE .	NONE	NONE	NONE	NONE	
N-AMINOETHYLPIPERAZINE	NONE	NONE	NONE	NONE	

* **SKIN NOTATION:** Listed substances indicated with "Y" under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- AIHA: American Industrial Hygiene Assoc. Workplace Environmental Exposure Level
- OSHA: Occupational Safety and Health Administration
- CMRG: Chemical Manufacture Recommended Guidelines
- NONE: None Established

8. HEALTH HAZARD DATA**EYE CONTACT:**

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

Allergic Skin Reaction: signs/symptoms can include redness, swelling,

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MSDS: 3M(TM) Rigid Parts Repair Material - Adhesive (Part A)/3M(TM) P.R.O.
Bond Adhesive (Part A), P.N. 05898
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8. HEALTH HAZARD DATA (continued)

blistering, and itching.

Mild Skin Irritation: signs/symptoms can include redness, swelling, and itching.

INHALATION:

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system.

IF SWALLOWED:

Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

SECTION CHANGE DATES

HEADING	SECTION CHANGED SINCE	NOVEMBER 26, 1997	ISSUE
INGREDIENTS	SECTION CHANGED SINCE	NOVEMBER 26, 1997	ISSUE
PRECAUT. INFO.	SECTION CHANGED SINCE	NOVEMBER 26, 1997	ISSUE

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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DIVISION: AUTOMOTIVE AFTERMARKET**TRADE NAME:**

3M Rigid Parts Repair Material - Adhesive (Part B)/P.R.O. Bond
Adhesive (Part B), P/N 05898

ISSUED: NOVEMBER 26, 1997**SUPERSEDES:** AUGUST 26, 1996**DOCUMENT:** 11-0398-5

1. INGREDIENT	C.A.S. NO.	PERCENT
TALC	14807-96-6	40.0 - 60.0
BISPHENOL A-EPICHLOROHYDRIN COPOLYMER	25068-38-6	25.0 - 45.0
1,4-BIS[(2,3-EPOXYPROPOXY)METHYL] CYCLOHEXANE	14228-73-0	10.0 - 20.0
DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA	67762-90-7	1.0 - 5.0
XYLENE	1330-20-7	< 0.2

NOTE: Part B is used with Part A (Document 11-0397-7).

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND 40 CFR PART 372:

XYLENE

2. PHYSICAL DATA

BOILING POINT:..... N/A
VAPOR PRESSURE:..... N/D
VAPOR DENSITY:..... N/D
EVAPORATION RATE:..... N/D
SOLUBILITY IN WATER:..... nil
SP. GRAVITY:..... 1.500-1.700 Water = 1 ASTM
PERCENT VOLATILE:..... 0.00 %
pH:..... N/D
VISCOSITY:..... 1MM-3MM CPS
MELTING POINT..... N/D
APPEARANCE AND ODOR: paste, red, little odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... > 200.00 F
FLAMMABLE LIMITS - LEL:..... N/D

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3. FIRE AND EXPLOSION HAZARD DATA (continued)

FLAMMABLE LIMITS - UEL: N/D

AUTOIGNITION TEMPERATURE: ... N/D

EXTINGUISHING MEDIA:

Water, Carbon dioxide, Dry chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None known.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 0 REACTIVITY: 1

UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS TO AVOID:

Not applicable.

HAZARDOUS POLYMERIZATION: Will Not Occur

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Aldehydes, Toxic Vapors, Gases or Particulates.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Collect spilled material. Place in a closed container.

RECOMMENDED DISPOSAL:

Cure product according to product instructions. Dispose of completely cured (or polymerized) material in a sanitary landfill. Disposal alternative: Incinerate in an industrial or commercial facility.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: N/A.

VOC Less H2O & Exempt Solvents: N/D.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

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5. ENVIRONMENTAL INFORMATION (continued)

EPCRA HAZARD CLASS:**FIRE HAZARD:** No **PRESSURE:** No **REACTIVITY:** Yes **ACUTE:** Yes **CHRONIC:** Yes

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:

Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

Do not induce vomiting. Drink two glasses of water. Call a physician.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Wear vented goggles. Wear safety glasses with side shields.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: butyl rubber, polyethylene/ethylene vinyl alcohol, polytetrafluoroethylene (Teflon), fluoroelastomer (Viton).

VENTILATION PROTECTION:

Provide appropriate local exhaust for grinding, cutting or sanding cured material. Use in a well-ventilated area. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:

Avoid prolonged breathing of vapors. Avoid breathing of dust created by cutting, sanding or grinding. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask dust respirator.

PREVENTION OF ACCIDENTAL INGESTION:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not ingest.

RECOMMENDED STORAGE:

Store away from heat. Keep out of the reach of children.

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7. PRECAUTIONARY INFORMATION (continued)**FIRE AND EXPLOSION AVOIDANCE:**
Not applicable.

INGREDIENTS	EXPOSURE LIMITS		TYPE	AUTH	SKIN*
	VALUE	UNIT			
TALC	2	mg/m ³	TWA	OSHA	
	as respirable dust				
TALC	2	mg/m ³	TWA	ACGIH	
	as respirable dust				
BISPHENOL A-EPOCHLOROHYDRIN COPOLYMER	NONE	NONE	NONE	NONE	
1,4-BIS[(2,3-EPOXYPROPOXY)METHYL] CYCLOHEXANE	NONE	NONE	NONE	NONE	
DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA	NONE	NONE	NONE	NONE	
XYLENE	100	ppm	TWA	ACGIH	
XYLENE	150	ppm	STEL	ACGIH	
XYLENE	100	ppm	TWA	OSHA	
XYLENE	150	ppm	STEL	OSHA	

* **SKIN NOTATION:** Listed substances indicated with "Y" under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- AIHA: American Industrial Hygiene Assoc. Workplace Environmental Exposure Level
- OSHA: Occupational Safety and Health Administration
- NONE: None Established

8. HEALTH HAZARD DATA**EYE CONTACT:**

Mild Eye Irritation: signs/symptoms can include redness, swelling, pain, and tearing.

SKIN CONTACT:

Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching.

Mild Skin Irritation: signs/symptoms can include redness, swelling, and itching.

INHALATION:

Irritation (upper respiratory): signs/symptoms can include soreness

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8. HEALTH HAZARD DATA (continued)

of the nose and throat, coughing and sneezing.

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system.

IF SWALLOWED:

Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

SECTION CHANGE DATES

ENVIRON. DATA	SECTION CHANGED SINCE	AUGUST 26, 1996 ISSUE
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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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