

MATERIAL SAFETY DATA SHEET

Date Printed: 06/30/2006
Product Code(s): 1402C,5C,6C,7C

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1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: PlastoMend Non-Rigid Epoxy Part A

Product Code(s): 1402C,5C,6C,7C

Manufacturer/Supplier: TRANSTAR AUTOBODY TECHNOLOGIES
2040 Heiserman Dr.
Brighton, MI, 48114, USA

24 Hour Emergency Phone(s): 800-424-9300 (CHEMTREC), 613-996-6666 (CANUTEC)

Business Phone: 810-220-3000

Product Use: Plastic repair

MSDS Prepared By: Kent Lewis

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% by Weight
Barium Sulfate	7727-43-7	25- 40%
Glycidyl ether of bisphenyl A	25068-38-6	25- 40%
Calcium Carbonate	1317-65-3	15- 25%
Modified Epoxy Resin	Trade Secret	10- 15%
Fatty Acid Dimer w/ Epichlorohydrin	68475-94-5	0 - 5%

See Section 15. Regulatory Information for code descriptions
Weight percent (%) of 0.0 means chemical is in trace amounts.

3. HAZARDS IDENTIFICATION

CAUTION! IRRITANT.

HMIS Hazard Ratings: Health =3 , Flammability =1, Chemical Reactivity =0

Note: HMIS ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

Potential Health Effects

Eyes: Slight to moderate irritation to the eyes.

Skin: Moderate irritation to the skin. Prolonged contact with this product can cause reddening, swelling, rash scalling or blistering.

Inhalation: Moderate irritation to the respiratory system.

Ingestion: Moderate irritation to the digestive tract. Contains epoxies, which, when combined with an activator generate heat and odor and solidify.

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4. FIRST AID MEASURES

Seek professional medical attention for all over-exposures and/or persistent problems. Epoxy systems solidify rapidly with high generation of heat. For eye contact or ingestion seek immediate medical attention.

Eyes Contact: Flush eyes with clean water for a minimum of 15 minutes. Seek medical attention. If eyes are closed DO NOT attempt to pry open. Flush outside of eyes with large amounts of water for 15 minutes. Seek immediate professional medical attention.

Skin Contact: Wash exposed area thoroughly with soap and water. If body parts are bonded together or to an object DO NOT attempt to pry apart. Seek professional medical attention immediately.

Inhalation: Remove person from area to fresh air. If breathing difficulty persists, seek medical attention.

Ingestion: DO NOT INDUCE VOMITTING. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point: >212 Deg F, 100 Deg C Method: NA
Upper Explosive Limit (UEL): n/a
Lower Explosive Limit (LEL): n/a
Autoignition Temperature: No data

Extinguishing Media: Foam, Alcohol Foam, CO₂, Dry Chemical, Water Fog, Other.

Special Firefighting Procedures: Full fire fighter equipment including SCBA should be worn to avoid skin contact and inhalation of concentrated vapors. Minimize skin exposure. Highly toxic fumes may be generated by thermal decomposition.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, oxides of nitrogen, and oxides of sulfur.

Unusual Fire and Explosion Hazards: Closed containers may explode when exposed to extreme heat or burst when contaminated with water (CO₂ gas evolved). Hazards apply to empty containers. Combustion generates toxic fumes. Epoxy systems solidify rapidly when combined and generate high temperatures.

6. ACCIDENTAL RELEASE MEASURES

For large spills or transportation accidents involving release of this product, contact the Emergency Response Center: 800-424-9300.

Allow material to solidify and scrape up. Dispose of in accordance

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with all applicable federal, state and local regulations.

7. HANDLING AND STORAGE

Use in cool, well-ventilated areas. Keep containers closed when not in use. Keep away from incompatibles. Keep away from excessive heat and open flames. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Store in a cool area away from heat and flames. Do not reuse container when empty.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name/Exposure Limits	CAS Number
Barium Sulfate OSHA PEL: 5mg/m3(resp) 15mg/m3(total), ACGIH TLV: 10mg/m3	7727-43-7
Glycidyl ether of bisphenyl A na	25068-38-6
Calcium Carbonate OSHA PEL: NA, ACGIH TLV: NA, OTHER: NA	1317-65-3
Modified Epoxy Resin	Trade Secret
Fatty Acid Dimer w/ Epichlorohydrin na	68475-94-5

Engineering Controls: Use with adequate ventilation. If normal ventilation is not adequate use exhaust fan.

Respiratory Protection: Utilize engineering controls to reduce emission levels below the time weighted exposure limits (ACGIH TLV & OSHA PEL). Wear an approved respirator if exposure limits are above the exposure limits listed above.

Eye Protection: Use safety glasses or splash goggles.

Skin Protection: Use chemical resistant gloves.

Safe Work Practices: Eye washes and safety showers in the workplace are recommended. Avoid contact with skin and eyes. Avoid breathing vapors. Wash hands thoroughly after using and before eating, drinking or smoking. Employee education and training in the safe use and handling of this product is required under the OSHA Hazard Communication Standard 29CFR1200. Always use protective clothing and equipment. Remove all contaminated clothing and wash thoroughly when finished working. Keep food and drink away from material and from area where material is being used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Homogeneous mixture

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Physical State: Paste
Color: Yellow
Odor: No odor present
Odor Threshold: No Data
Specific Gravity (water=1) 1.46
Vapor Pressure: No data
Vapor Density: Heavier than air
Material VOC: 0.02 lb/gl 3 g/l
Coating VOC: 0.02 lb/gl 3 g/l
Evaporation Rate: Slower than Butyl Acetate
Boiling Point: n/a
Melting Point: No data
Freezing Point: No data
Viscosity at Ambient Temperature: No data
Solubility in Water: Insoluble
Octanol/Water Partition Coefficient: No data
pH: No data

10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility: Strong acids, strong bases, strong oxidizing agents, amines and hot epoxy resin systems.

Hazardous Polymerization: May occur.

11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

ACUTE:

INHALATION - Dizziness, breathing difficulty, headaches, & loss of coordination.

EYE CONTACT - Moderate irritation, tearing, redness, and blurred vision.

SKIN CONTACT - Moderate irritation with redness, itching, possible swelling, and dermatitis.

INGESTION - Can cause gastrointestinal irritation, vomiting, nausea, & diarrhea.

CHRONIC:

Contains a known carcinogen.

Acute Toxicity Data: No data.

Carcinogenicity: NTP -No, IARC -No, OSHA -No

This product has not been tested for carcinogenic effects. Some chemicals in this product may be identified by NTP, IARC and/or OSHA as carcinogenic, indicated above as "Yes". No further information available.

Teratology: No data.

Reproduction: No data.

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Mutagenicity: No data.

12. ECOLOGICAL INFORMATION

No data.

13. DISPOSAL CONSIDERATIONS

It is the responsibility of the generator to classify the waste. Product should be disposed of in accordance with all applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

The following transportation information is provided based on Transtar Autobody Technologies interpretation of shipping regulations. Each shipper is responsible for identifying, naming, marking and labeling prior to offering for transport.

USA (DOT) Status: Not regulated

Water (IMDG) Status: Not regulated

Air (ICAO,IATA) Status: Not regulated

Canada (TDG) Status: Not regulated

15. REGULATORY INFORMATION

The information listed in this section is not all inclusive of all regulations for this product or the chemical components of this product.

US Federal Regulations

TSCA Status: All known major components of this product are listed on the TSCA Inventory and/or are otherwise in compliance with TSCA.

SARA 302 (EHS) Status: No EHS chemicals present.

SARA 311/312 Status: Immediate Health hazard, Delayed Health hazard

SARA 313 Status: *** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***

OSHA Status: This material meets the requirement of hazardous material and is subject to 29CFR1910.1200.

USA State Information

California Proposition 65: This product does not contain chemical(s)

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known to the State of California to cause cancer or birth defects or other reproductive harm.

Pennsylvania RtK Status: This material contains chemical(s) subject to notification under Pennsylvania Right to Know.

New Jersey RtK Status: This material contains chemical(s) subject to notification under New Jersey Right to Know.

Massachusetts RtK Status: This material contains chemical(s) subject to notification under Massachusetts Right to Know.

Rhode Island RtK Status: This material contains chemical(s) subject to notification under Rhode Island Right to Know.

International Regulations

Canada

DSL Status: All known major components of this product are listed on the DSL Inventory and/or are otherwise in compliance with the DSL

NDSL Status: Contains no chemicals on the NDSL

WHMIS: D2A D2B

EINECS Status: All components of this material are listed on the EINECS Inventory.

16. OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Transtar Autobody Technologies to be accurate. As with all chemicals, KEEP AWAY FROM CHILDREN AND ANIMALS. FOR PROFESSIONAL USE ONLY. 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.

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1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Plastomend Non-Rigid Hardener Part B

Product Code(s): 1605C,1606C,1607C

Manufacturer/Supplier: TRANSTAR AUTOBODY TECHNOLOGIES
2040 Heiserman Dr.
Brighton, MI, 48114, USA

24 Hour Emergency Phone(s): 800-424-9300 (CHEMTREC), 613-996-6666 (CANUTEC)

Business Phone: 810-220-3000

Product Use: Hardener/Activator

MSDS Prepared By: Kent Lewis

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% by Weight
MERCAPTAN	TRADE SECRET	40- 65%
Calcium Carbonate	1317-65-3	40- 65%
Titanium Dioxide	13463-67-7	0 - 5%
Tertiary Amine	90722	0 - 5%
Amorphous Fumed Silica	112945-52-5	0 - 5%
Glycerine	56-81-5	0 - 5%
Silica, Crystalline (Quartz)	14808-60-7	0 - 5%

See Section 15. Regulatory Information for code descriptions
Weight percent (%) of 0.0 means chemical is in trace amounts.

3. HAZARDS IDENTIFICATION

CAUTION! IRRITANT.

HMIS Hazard Ratings: Health =2*, Flammability =1, Chemical Reactivity =1

Note: HMIS ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

Potential Health Effects

Eyes: Slight to moderate irritation to the eyes.

Skin: Moderate irritation to the skin. Prolonged contact with this product can cause reddening, swelling, rash scalling or blistering.

Inhalation: Moderate irritation to the respiratory system.

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Ingestion: Moderate irritation to the digestive tract. Contains epoxies, which, when combined with an activator generate heat and odor and solidify.

4. FIRST AID MEASURES

Seek professional medical attention for all over-exposures and/or persistent problems. Epoxy systems solidify rapidly with high generation of heat. For eye contact or ingestion seek immediate medical attention.

Eyes Contact: Flush eyes with clean water for a minimum of 15 minutes. Seek medical attention. If eyes are closed DO NOT attempt to pry open. Flush outside of eyes with large amounts of water for 15 minutes. Seek immediate professional medical attention.

Skin Contact: Wash exposed area thoroughly with soap and water. If body parts are bonded together or to an object DO NOT attempt to pry apart. Seek professional medical attention immediately.

Inhalation: Remove person from area to fresh air. If breathing difficulty persists, seek medical attention.

Ingestion: DO NOT INDUCE VOMITTING. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point: >212 Deg F, 100 Deg C Method: COC
Upper Explosive Limit (UEL): n/a
Lower Explosive Limit (LEL): n/a
Autoignition Temperature: No data

Extinguishing Media: Foam, Alcohol Foam, CO₂, Dry Chemical, Water Fog, Other.

Special Firefighting Procedures: Full fire fighter equipment including SCBA should be worn to avoid skin contact and inhalation of concentrated vapors. Minimize skin exposure. Highly toxic fumes may be generated by thermal decomposition.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, oxides of nitrogen, and oxides of sulfur.

Unusual Fire and Explosion Hazards: Closed containers may explode when exposed to extreme heat or burst when contaminated with water (CO₂ gas evolved). Hazards apply to empty containers. Combustion generates toxic fumes. Epoxy systems solidify rapidly when combined and generate high temperatures.

6. ACCIDENTAL RELEASE MEASURES

For large spills or transportation accidents involving release of this product, contact the Emergency Response Center: 800-424-9300.

Allow material to solidify and scrape up. Dispose of in accordance with all applicable federal, state and local regulations.

7. HANDLING AND STORAGE

Use in cool, well-ventilated areas. Keep containers closed when not in use. Keep away from incompatibles. Keep away from excessive heat and open flames. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Store in a cool area away from heat and flames. Do not reuse container when empty.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name/Exposure Limits	CAS Number
MERCAPTAN	TRADE SECRET
NA	
Calcium Carbonate	1317-65-3
OSHA PEL: NA, ACGIH TLV: NA, OTHER: NA	
Titanium Dioxide	13463-67-7
OSHA PEL: 15mg/m3, ACGIH TLV: 10 mg/m3	
Tertiary Amine	90722
NA	
Amorphous Fumed Silica	112945-52-5
OSHA PEL: 15 mg/m3 TWA, ACGIH TLV: 10 mg/m3 TWA OTHER: N/A	
Glycerine	56-81-5
OSHA PEL: 10 mg/m3, ACGIH TLV: 10 mg/m3	
Silica, Crystalline (Quartz)	14808-60-7
ACGIH TLV: 0.1 mg/m3	

Engineering Controls: Use with adequate ventilation. If normal ventilation is not adequate use exhaust fan.

Respiratory Protection: Utilize engineering controls to reduce emission levels below the time weighted exposure limits (ACGIH TLV & OSHA PEL). Wear an approved respirator if exposure limits are above the exposure limits listed above.

Eye Protection: Use safety glasses or splash goggles.

Skin Protection: Use chemical resistant gloves.

Safe Work Practices: Eye washes and safety showers in the workplace are recommended. Avoid contact with skin and eyes. Avoid breathing vapors. Wash hands thoroughly after using and before eating, drinking or smoking. Employee education and training in the safe use and handling of this product is required under the OSHA Hazard Communication Standard 29CFR1200. Always use protective clothing and equipment. Remove all contaminated clothing and wash thoroughly when finished working. Keep food and drink away from material and from area where material is being used.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Homogeneous mixture
Physical State: Paste
Color: White
Odor: Mercaptan
Odor Threshold: No Data
Specific Gravity (water=1) 1.53
Vapor Pressure: No data
Vapor Density: Heavier than air
Material VOC: 0.16 lb/gl 20 g/l
Coating VOC: 0.16 lb/gl 20 g/l
Evaporation Rate: Faster than Butyl Acetate
Boiling Point: 340 deg F
Melting Point: No data
Freezing Point: No data
Viscosity at Ambient Temperature: No data
Solubility in Water: Insoluble
Octanol/Water Partition Coefficient: No data
pH: No data

10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility: Strong acids, strong bases, strong oxidizing agents, amines and hot epoxy resin systems.

Hazardous Polymerization: May occur.

11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

ACUTE:

INHALATION - Dizziness, breathing difficulty, headaches, & loss of coordination.

EYE CONTACT - Moderate irritation, tearing, redness, and blurred vision.

SKIN CONTACT - Moderate irritation with redness, itching, possible swelling, and dermatitis.

INGESTION - Can cause gastrointestinal irritation, vomiting, nausea, & diarrhea.

CHRONIC:

No chronic health effects known.

Acute Toxicity Data: No data.

Carcinogenicity: NTP -Yes, IARC -Yes, OSHA -No

This product has not been tested for carcinogenic effects. Some chemicals in this product may be identified by NTP, IARC and/or OSHA as carcinogenic, indicated above as "Yes". No further information

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available.

Teratology: No data.

Reproduction: No data.

Mutagenicity: No data.

12. ECOLOGICAL INFORMATION

No data.

13. DISPOSAL CONSIDERATIONS

Subject to hazardous waste generation, treatment, storage and disposal under RCRA, 40CFR261. Product should be disposed of in accordance with all Federal, State and local regulations.

14. TRANSPORT INFORMATION

The following transportation information is provided based on Transtar Autobody Technologies interpretation of shipping regulations. Each shipper is responsible for identifying, naming, marking and labeling prior to offering for transport.

USA (DOT) Status: Not regulated

Water (IMDG) Status: Not regulated

Air (ICAO,IATA) Status: Not regulated

Canada (TDG) Status: Not regulated

15. REGULATORY INFORMATION

The information listed in this section is not all inclusive of all regulations for this product or the chemical components of this product.

US Federal Regulations

TSCA Status: All known major components of this product are listed on the TSCA Inventory and/or are otherwise in compliance with TSCA.

SARA 302 (EHS) Status: No EHS chemicals present.

SARA 311/312 Status: Immediate Health Hazard, Delayed Health Hazard, Reactive Hazard.

SARA 313 Status: *** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***

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OSHA Status: This material meets the requirement of hazardous material and is subject to 29CFR1910.1200.

USA State Information

California Proposition 65: WARNING: This product contains chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

Pennsylvania RtK Status: This material contains chemical(s) subject to notification under Pennsylvania Right to Know.

New Jersey RtK Status: This material contains chemical(s) subject to notification under New Jersey Right to Know.

Massachusetts RtK Status: This material contains chemical(s) subject to notification under Massachusetts Right to Know.

Rhode Island RtK Status: This material contains chemical(s) subject to notification under Rhode Island Right to Know.

International Regulations

Canada

DSL Status: All known major components of this product are listed on the DSL Inventory and/or are otherwise in compliance with the DSL

NDSL Status: Contains no chemicals on the NDSL

WHMIS: D2A, D2B

EINECS Status: Some components of this material are not listed on the EINECS Inventory.

16. OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Transtar Autobody Technologies to be accurate. As with all chemicals, KEEP AWAY FROM CHILDREN AND ANIMALS. FOR PROFESSIONAL USE ONLY. 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.
