

SAFETY DATA SHEET

Section 1 - Chemical Product and Company Information

Product Name: PLASTO-MEND RIGID PLASTIC REPAIR Product Code: 1478

Manufacturer/Supplier:

TRANSTAR AUTOBODY TECHNOLOGIES

2040 Heiserman Dr.

Brighton, MI, 48114, USA

24 Hour Emergency Phone(s):

USA 800-424-9300 (CHEMTREC)

International 001-703-527-3887 (CHEMTREC Int'l)

Canadian Distributor:

Business Phone: 810-360-1600

SDS Prepared By: Transtar Autobody Technologies

Product Use: For Professional and Industrial Use Only

Not recommended for: Not for sale to the general public

Section 2 - Hazards Identification

Classification of the substance or mixture

GHS Ratings:

Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: $\geq 2.3 < 4.0$ or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Skin sensitizer	1	Skin sensitizer
Carcinogen	2	Limited evidence of human or animal carcinogenicity
Organ toxin repeated exposure	2	Presumed to be harmful to human health- Animal studies with significant toxic effects relevant to humans at generally moderate exposure (guidance)- Human evidence in exceptional cases

GHS Hazards

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure

GHS Precautions

P101	If medical advice is needed, have product container or label at hand
P102	Keep out of reach of children
P103	Read label before use
P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P260	Do not breathe dust, mist, vapors or spray
P264	Wash contacted skin thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves, protective clothing, eye protection, face protection and respiratory protection.
P362	Take off contaminated clothing and wash before reuse
P302+P352	IF ON SKIN: Wash with soap and water

P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
P308+P313	IF exposed or concerned: Get medical advice
P333+P313	If skin irritation or a rash occurs: Get medical advice
P405	Store locked up
P501	Dispose of contents and container in accordance with local, regional, national and international regulations.

Danger



Hazards not otherwise classified (HNOC) or not covered by GHS:

None known

The following % of the mixture consists of ingredient(s) of unknown acute toxicity.

0%

Section 3 - Composition

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Calcium Carbonate 1317-65-3 20 to 30%	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	ACGIH has set a TWA of 10 mg/m ³ (for dust containing no asbestos and <1% free silica).	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)
Mercaptan terminated epoxy curing agent 20 to 30%			
Bisphenol A, epichlorohydrin polymer 25068-38-6 20 to 30%			
Barium Sulfate 7727-43-7 10 to 20%	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	5 mg/m ³ TWA (inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica)	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)
Talc 14807-96-6 1 to 5%	PEL-TWA is 20 mppcf (million particles per cubic foot of air).	2 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	NIOSH: 2 mg/m ³ TWA (containing no Asbestos and <1% Quartz, respirable dust)
2,4,6-Tris[(Dimethylamino)Methyl]Phenol 90-72-2 1 to 5%			

Titanium Dioxide (Dust) 13463-67-7 1 to 5%	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	
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Section 4 - First Aid Measures

Seek professional medical attention for all over-exposures and/or persistent problems.

INHALATION: If Inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing difficulty persists, seek medical attention.

EYE CONTACT: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for a minimum of 15 minutes while holding eye lids open. If eye irritation persists: seek medical attention.

SKIN CONTACT: Take off all contaminated clothing immediately. Wash exposed area thoroughly with soap and water. Seek medical attention if irritation persists. Do NOT use solvents or thinners to wash off.

INGESTION: Rinse mouth. If swallowed, seek medical attention immediately and have product container or label at hand. DO NOT INDUCE VOMITING unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:

Dizziness, breathing difficulty, headaches, & loss of coordination. May cause skin sensitization and allergic reaction.

Indication of any immediate medical attention and special treatment needed.

Seek professional medical attention for all over-exposures and/or persistent problems.

Section 5 - Fire Fighting Measures

LEL: 1.4 %

UEL: 22.7 %

Extinguishing Media: Dry Chemical, Foam, CO2 or water fog.

Unsuitable Extinguishing Media: High volume water jets

Unusual Fire and Explosion Hazards: Vapors can travel to a source of ignition and flash back. 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.

Hazardous combustible Products: Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition product: Carbon oxides, traces of incompletely burned carbon compounds and toxic fume.

Special Fire Fighting Procedures: Highly toxic fumes may be generated by thermal decomposition. Water runoff from fire fighting can cause environmental damages. Dike and collect water used to fight fire. If large amount is involved, evacuate area.

Fire Equipment: Full fire fighter equipment including SCBA should be worn to avoid skin contact and inhalation of concentrated vapors. Minimize skin exposure.

Section 6 - Spillage/Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Use personal protective equipment. Avoid breathing vapors and mist. Use only non-sparking tools. Eliminate all sources of ignition, provide adequate ventilation. Beware of vapors accumulation to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Dispose of in a DOT approved container. The container must be labeled and disposed in accordance with State, Federal, or local waste regulations by a licensed waste contractor/hauler. For large spills or transportation accidents involving release of this

product, contact the National Response Center: 800-424-9300.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Cover drains and build dikes to prevent entry into sewer systems or bodies of water. Do not let product enter drains.

Methods and materials for containment and cleaning up:

If possible, seal leaking container. Place leaking containers in a well-ventilated area. Dike or contain spill area and add absorbent material to spilled liquid.

For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools.

Dispose of in a DOT approved container. The container must be labeled and disposed in accordance with State, Federal, or local waste regulations by a licensed waste contractor/hauler. For large spills or transportation accidents involving release of this product, contact the National Response Center: 800-424-9300.

Clean up residue with an appropriate cleaner selected by a qualified and authorized person. Ventilate the area with fresh air.

Section 7 - Handling & Storage

Use in well ventilated areas. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required. Do not take internally. Follow all SDS label precautions even after container is emptied because they may retain product residues. Do not reuse container when empty.

Storage Requirements: Keep container tightly closed. Keep away from heat, sparks, open flames and hot surfaces-No Smoking. Store in a cool, dry and well-ventilated place. Do not reuse container when empty. Protect from sunlight. Store away from heat. Store away from oxidizing agents.

Section 8 - Exposure Controls/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Calcium Carbonate 1317-65-3	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	ACGIH has set a TWA of 10 mg/m3 (for dust containing no asbestos and <1% free silica).	NIOSH: 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
Mercaptan terminated epoxy curing agent			
Bisphenol A, epichlorohydrin polymer 25068-38-6			
Barium Sulfate 7727-43-7	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	5 mg/m3 TWA (inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica)	NIOSH: 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)

Talc 14807-96-6	PEL-TWA is 20 mppcf (million particles per cubic foot of air).	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	NIOSH: 2 mg/m3 TWA (containing no Asbestos and <1% Quartz, respirable dust)
2.4.6-Tris[(Dimethylamino) Methyl]Phenol 90-72-2			
Titanium Dioxide (Dust) 13463-67-7	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	

Engineering Controls: Ground and bond container and receiving equipment. Engineering controls should be utilized to control airborne contaminants below exposure limits (PEL & TLV). Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. Ventilation equipment must be explosion proof. If ventilation is not adequate, use respiratory protection equipment.

Ventilation: General mechanical ventilation or local exhaust should be utilized to keep vapor concentrations below exposure limits (PEL & TLV). Ventilation equipment must be explosion proof.

Admin Controls/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 29 CFR 1200. Smoking in an area where this material is used should be strictly prohibited. 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. Spraying of material can cause an oxygen deficient environment. Use proper ventilation to remove vapors, mist and fumes combined with NIOSH approved respirator.

Respiratory Protection: Utilize engineering controls to reduce emission levels below the time weighted exposure limits (ACGIH, TLV & OSHA PEL). Wear an approved ANSI respirator if exposure limits are above the exposure limits listed above. When spraying this material utilize engineering controls such as vents and fans, to reduce the emission levels below the time weighted exposure limits (ACGIH, TLV & OSHA PEL) or use a fresh-air supplying respirator or a self-contained breathing apparatus.

Eye Protection: Use safety Glasses or Splash Goggles.

Skin Protection: Use Chemical resistant gloves (nitrile or butyl rubber)

Body Protection: Impervious clothing, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Contaminated Gear: Take off contaminated clothing immediately and wash before reuse.

Section 9 - Physical & Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

<p>Appearance Clear, White, Black, Grey</p> <p>Odor Epoxy</p> <p>pH: No data available</p> <p>Freezing point: No data available</p> <p>Flash point: NA</p> <p>Flammability: No data available</p> <p>Vapor Pressure: 0.079 mmHg</p> <p>Density (Lb / Gal) 13.53</p>	<p>Physical State Semisolid</p> <p>Odor threshold: No data available</p> <p>Melting point: No data available</p> <p>Boiling range: 131°C</p> <p>Evaporation rate: No data available</p> <p>Explosive Limits: 1% - 23%</p> <p>Vapor Density: 2.1</p> <p>Solubility: No data available</p> <p>Partition coefficient (n-octanol/water):</p>
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Autoignition temperature: N/A Viscosity: No data available Regulatory Coating VOC 0.01 lb/gal Actual Coating VOC lb/Gal 0.01 Specific Gravity (SG) 1.621 % Weight Water 0.1 % Vol Exempt VOC 0.00	Decomposition temperature: No data available Regulatory Coating VOC g/L 2 Actual Coating VOC g/L 2 Weight Percent Volatile 0.24 % Weight VOC 0.10 % Wt Exempt VOC 0.00
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Section 10 - Stability and Reactivity

Reactivity: No data available

Stability: Stable under recommended storage conditions.

Incompatible with:

Strong acids, strong bases, strong oxidizers

Hazardous products produced under decomposition:

Oxides or carbon and nitrogen

Section 11 - Toxicological Information

Mixture Toxicity

Oral Toxicity: 3,201mg/kg

Component Toxicity

- | | |
|------------|-----------------------------------------------------------------------------------------------|
| 25068-38-6 | Bisphenol A, epichlorohydrin polymer
Oral: 5,000 mg/kg (Rat) Dermal: 4,000 mg/kg (Rat) |
| 90-72-2 | 2,4,6-Tris[(Dimethylamino)Methyl]Phenol
Oral: 1,000 mg/kg (Rat) Dermal: 1,280 mg/kg; (Rat) |

This mixture has not been tested for toxicological effects .

Acute Effects:

- INHALATION - Dizziness, breathing difficulty, headaches, & loss of coordination .
- EYE CONTACT - Moderate irritation, tearing, redness, and blurred vision .
- SKIN CONTACT - Moderate irritant. Can dry and defat skin causing cracks, irritation, and dermatitis.
- INGESTION - Can cause gastrointestinal irritation, vomiting, nausea, & diarrhea.

Chronic Effects:

May affect liver, kidney and central nervous system with repeated exposure . Prolonged or repeated exposure may cause lung injury. May cause skin sensitization and allergic reaction.

Routes of Entry:

- | | | | |
|------------|--------------|-------------|-----------|
| Inhalation | Skin Contact | Eye Contact | Ingestion |
|------------|--------------|-------------|-----------|

Target Organs:

- | | | | | | |
|------|-------|------|-----------------------|--------------------|-------|
| Eyes | Lungs | Skin | Cardiovascular System | Respiratory System | Other |
|------|-------|------|-----------------------|--------------------|-------|

Effects of Overexposure

Short Term Exposure Inhalation can cause irritation of the eyes and respiratory tract, causing cough and phlegm. Irritates the skin.

Long Term Exposure

High exposures may cause lung irritation; bronchitis may develop. Continued exposure may result in emphysema, lung scarring, lung fibrosis, and tumors. A potential occupational carcinogen.

The following chemicals comprise of at least 0.1% of this mixture and are listed and/or classified as carcinogens or potential carcinogens by the NTP, IARC, OSHA (mandatory listing) or ACGIH (optional listing).

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
13463-67-7	Titanium Dioxide (Dust)	1 to 5%	Titanium Dioxide (Dust): NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed

Section 12 - Ecological

This material has not been tested for ecological effects.

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: Contains photochemically reactive solvent.

Component Ecotoxicity

Talc 96 Hr LC50 Brachydanio rerio: >100 g/L [semi-static]

Section 13 - Disposal Considerations

Product should be disposed of in accordance with all Federal, State and local regulations. Contact a licensed professional waste disposal service to dispose of this material. Subject to hazardous waste generation, treatment, storage and disposal rules under RCRA, 40CFR261. Recycle containers when possible.

Section 14 - Transportation

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 .

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
IATA	Aviation regulated liquid, n.o.s. (Polymercapta, Epichlorohydrin)	UN3334		9
IMDG	Non-Regulated			
USDOT	Non-Regulated			

For inner packagings not exceeding 5L each packaged in a strong outer box: Limited Quantity

Section 15 - Regulatory

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

Australia-AICS: The following chemicals are listed:

- 13463-67-7 Titanium Dioxide (Dust) 1 to 5 %
- 90-72-2 2,4,6-Tris[(Dimethylamino)Methyl]Phenol 1 to 5 %
- 14807-96-6 Talc 1 to 5 %
- 7727-43-7 Barium Sulfate 10 to 20 %

25068-38-6 Bisphenol A epoxy resin 20 to 30 %
1317-65-3 Calcium Carbonate 20 to 30 %

California Hazardous Substance List:

- None

China-SEPA (IECSC): The following chemicals are listed :

13463-67-7 Titanium Dioxide (Dust) 1 to 5 %
90-72-2 2.4.6-Tris[(Dimethylamino)Methyl]Phenol 1 to 5 %
14807-96-6 Talc 1 to 5 %
7727-43-7 Barium Sulfate 10 to 20 %
25068-38-6 Bisphenol A epoxy resin 20 to 30 %
1317-65-3 Calcium Carbonate 20 to 30 %

DSL Status: The following chemicals are listed on the DSL Inventory.

13463-67-7 Titanium Dioxide (Dust) 1 to 5 %
90-72-2 2.4.6-Tris[(Dimethylamino)Methyl]Phenol 1 to 5 %
14807-96-6 Talc 1 to 5 %
7727-43-7 Barium Sulfate 10 to 20 %
25068-38-6 Bisphenol A epoxy resin 20 to 30 %

HAPS: This formulation contains the following HAPS:

- None

NJ RTK: The following chemicals are listed under New Jersey RTK

13463-67-7 Titanium Dioxide (Dust) 1 to 5 %
14807-96-6 Talc 1 to 5 %
7727-43-7 Barium Sulfate 10 to 20 %
1317-65-3 Calcium Carbonate 20 to 30 %

California Proposition 65

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

- None

California Proposition 65

WARNING: This product contains the following chemical(s) known to the State of California to cause cancer .

13463-67-7 Titanium Dioxide (Dust) 1 to 5 %

PA RTK: The following chemicals are listed under Pennsylvania RTK:

13463-67-7 Titanium Dioxide (Dust) 1 to 5 %
14807-96-6 Talc 1 to 5 %
7727-43-7 Barium Sulfate 10 to 20 %
1317-65-3 Calcium Carbonate 20 to 30 %

EU REACH SIN: The chemicals listed below are on the EU REACH SIN list

- None

SARA 312: This Product contains the following chemicals subject to the reporting requirements of SARA 312:

- None

SARA 313: This Product contains the following chemicals subject to the reporting requirements of SARA 313:

- None

WHMIS:

- None

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances

Control Act Chemical Substance Inventory:

- None

Section 16 - Other Information

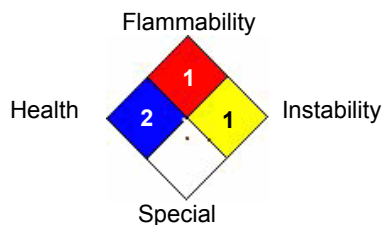
Note: HMIS Ratings involve data and interpretations that can vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

Hazardous Material Information System (HMIS)

HEALTH	<input type="text"/>	2
FLAMMABILITY	<input type="text"/>	1
PHYSICAL HAZARD	<input type="text"/>	1
PERSONAL PROTECTION	<input type="text"/>	

HMIS & NFPA Hazard Rating Legend
* = Chronic Health Hazard
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

National Fire Protection Association (NFPA)



Date Prepared: 5/26/2015

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 AND INDUSTRIAL 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.