

Safety Data Sheet

105MA Tire Sealant

MSDS No. 16033.1

Date of Preparation: 6/6/07

Revision: 2/6/13

Section 1 - Chemical Product and Company Identification

Product: 105MA Tire Sealant

Manufacturer: Marshall Additive Technologies

Division of the R. J. Marshall Company

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Section 2 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

HMIS

H 1

F 1

R 0

PPE†

†Sec. 8

Potential Health Effects



Warning: Irritant R36/37/39 Irritating to eyes, respiratory system, skin.

Primary Entry Routes: Inhalation

Acute Effects

Inhalation: Irritation or soreness in throat, nose, and respiratory tract. Some individuals, e.g. with asthma or bronchitis, are likely to be intolerant of high concentrations of airborne fibers or fiber dust when processing.

Eye: May cause inflammation, irritation, or scratch the surface of the eyes.

Skin: Contact with fibers may cause a rash.

Ingestion: May cause temporary irritation to the gastrointestinal tract.

Carcinogenicity: IARC has listed polyethylene and polyvinyl chloride as Class 3 unclassifiable as to carcinogenicity in humans. IARC has classified refractory fibers as a possible human carcinogen (Group 2B).

Aggravated Medical Conditions: May aggravate existing chronic lung conditions such as bronchitis, emphysema, and asthma.

Section 3 - Composition / Information on Ingredients

Ingredient Name	CAS Number
Polyethylene	9002-88-4
Polyvinyl Alcohol	9002-89-5
Refractories, fibers, aluminosilicate	142844-00-6
Cellulose Fibers	9004-34-6

Trace Impurities:

Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Polyethylene	none estab.	none estab.	none estab.	none estab.
Polyvinyl Alcohol	none estab.	none estab.	none estab.	none estab.
Refractories, fibers, aluminosilicate	none estab.	none estab.	none estab.	none estab.
Cellulose Fibers	15mg/m ³ total, 5mg/m ³ respirable	none estab.	none estab.	none estab.

Manufacturer recommended exposure guidelines 0.5f/cc 8 hr TWA.

Section 4 - First Aid Measures

Inhalation: Move person to fresh air and seek medical attention if coughing or other symptoms occur.

Eye Contact: Flush with large amounts of water for at least 15 minutes. Do not rub eyes.

Skin Contact: Wash affected area gently with soap and water. Use lotion after washing if needed.

Ingestion: Do not induce vomiting. Drink plenty of water.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 - Fire-Fighting Measures



Flash Point: >200C R10 flammable

Flash Point Method: n/a

Extinguishing Media: Water

Unusual Fire or Explosion Hazards: As with many solids, any dust that is generated may be explosive if mixed with air in critical proportions and in the presence of a source of ignition.

Hazardous Combustion Products: None known.

Fire-Fighting Instructions: Avoid excessive inhalation of smoke or potential thermal decomposition products.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill /Leak Procedures: Avoid creating airborne dust. Follow routine housekeeping procedures. Vacuum only with HEPA filtered equipment. If sweeping is necessary, use a dust suppressant and place material in closed containers. Do not use compressed air for cleanup. Wet material can cause a surface used for walking to become extremely slippery. Personnel should wear gloves, goggles, and approved respirator. Avoid clean-up procedures that could result in water pollution.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Limit use of power tools unless in conjunction with local exhaust. Use hand tools whenever possible. Frequently clean the area with HEPA filtered vacuum or wet sweeping to minimize the accumulation of debris.

Storage Requirements: Do not store near flame or incompatible materials. Maintain good housekeeping to control dust accumulations. Store at temperatures below 60C (150F).

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Use ventilation and dust collection devices to reduce airborne fiber concentrations to the lowest attainable level.

Administrative Controls:

Respiratory Protection: Up to 0.5 f/cc use a disposable dust/mist respirator. For concentrations over 0.5 f/cc consult an industrial hygienist for proper respirator selection.

Protective Clothing/Equipment: S36/37/39: Wear full body clothing, gloves, hat, and eye protection. Wash work clothes separately from other clothing. Rinse washer after use. If you take work clothing home, it is recommended you vacuum your clothes with a HEPA filtered vacuum before leaving the work area. Goggles or face shield is recommended.

S20/21: When using do not eat, drink, or smoke.

Section 9 - Physical and Chemical Properties

Physical State: solid

Appearance and Odor: white, odorless

Odor Threshold: n/e

Vapor Pressure: n/e

Vapor Density (Air=1): n/a

Formula Weight: n/a

Density: n/a

Specific Gravity (H₂O=1, at 4 °C): 1.78

pH: n/e

Water Solubility: Negligible

Other Solubilities: n/a

Boiling Point: n/a

Freezing/Melting Point: n/e

Viscosity: n/a

Refractive Index: n/a

Surface Tension: n/a

% Volatile: n/e

Evaporation Rate: n/e

Section 10 - Stability and Reactivity

Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: None anticipated under normal or recommended handling and storage conditions.

Chemical Incompatibilities: S14: Keep away from hydrofluoric acid, phosphoric acid, strong alkalies, strong acids and bases.

Conditions to Avoid: S15: Keep away from open flames and excessive heat shall be avoided. Small quantities of fumes are evolved at about 225C (435F). These gradually increase until at above 300C (572F) decomposition and oxidative pyrolysis take place. Above 300C (572F) the heat of oxidation may produce a rapid rise in temperature, which accelerates the pyrolysis. Under these circumstances hazardous substances such as carbon monoxide, formaldehyde, and acrolein can be evolved.

Hazardous Decomposition Products: None anticipated.

Section 11 – Toxicological Information

Refractories fibers: Workers who smoke and are exposed to refractories fibers have a greater reduction in pulmonary function than those who do not smoke. It is recommended that persons who work with refractories fibers do not smoke.

Section 12 - Ecological Information

Fiber is not biodegradable.

Section 13 - Disposal Considerations

Disposal: Dispose as solid waste in sanitary landfill according to Federal, State, and local regulations. Do not incinerate closed containers.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Polyethylene Fiber
 NFMC No. 68555
 Class: 85

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)
 RCRA Hazardous Waste Classification: Not classified
 CERCLA Hazardous Substance (40 CFR 302.4) Not listed
 SARA Toxic Chemical (40 CFR 372.65): Not listed
 SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed
 California Proposition 65: This product contains chemicals known to the State of California to cause cancer.

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

TSCA

This substance or all of its components are on the Chemical Substances Inventory of the Toxic Substance Control Act (TSCA Inventory [USA]). Please note that this product is not subject to any legal reporting requirements under these acts.

INTERNATIONAL Regulations:

This product or all of its ingredients have been listed on the following inventories:

Canada: Listed on WHMIS Class D-2A (Materials causing other toxic effects)

Listed on DSL

Europe: Listed on EINECS.

Refractory fibers have been classified by the European Union as Category 2 carcinogen and as an irritant.

China: Listed on IECSC

Japan: Listed on ENCS

Korea: Listed on ECL

Taiwan: Listed on NECI

New Zealand: Listed on NZIoC

Section 16 - Other Information

Prepared By: Stephanie Nichols

Revision Notes: updated to SDS

Product Grades Available from the R. J. Marshall Company (this list may be incomplete):

105MA

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