

Safety Data Sheet

105MA Tire Sealant

SDS No. 16033.2

Date of Preparation: 6/6/07

Revision: 8/12/15

Section 1 - Chemical Product and Company Identification

Product: 105MA Tire Sealant

Manufacturer: Marshall Additive Technologies
Division of the R. J. Marshall Company
26776 W. 12 Mile Road
Southfield, MI 48034-7807
Phone: (248) 353-4100, Fax: (248) 948-6460

Emergency Phone: (800) 424-9300
Date Revised: 8/12/15
Preparer: Stephanie Nichols

Section 2 - Hazards Identification

Classification of the chemical in accordance with paragraph (d) of 1910.1200:

Carcinogen: Class 2

Comubstible dust

Signal Word: Warning



Symbol:

Hazard Statements:

Suspected of causing cancer by inhalation

May form combustible dust concentrations in air (during processing).

Precautionary Statements:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye and face protection.

If exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of in accordance with local regulations.

Hazards not otherwise classified: Mild mechanical irritation to skin, eyes, and upper respiratory system may result from exposure. These effects are usually temporary.

Section 3 - Composition / Information on Ingredients

Ingredient Name	CAS Number	%
Refractories, fibers, aluminosilicate	142844-00-6	50% max

There are no other hazardous ingredients in this product.

Section 4 - First Aid Measures

Description of necessary measures, subdivided according to the different routes of exposure:

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

Eye Contact: Remove contact lenses, if present. Flush with large amounts of lukewarm water for at least 15 minutes. Do not rub eyes. Consult a physician if symptoms persist.

Skin Contact: Wash affected area gently with soap and water. Do not rub or scratch exposed skin. Use lotion after washing if needed. Consult a physician if symptoms persist.

Ingestion: No acute hazards known. Consult a physician if symptoms develop.

Most important symptoms/effects, acute and delayed: May cause eye, respiratory irritation.

Indication of immediate medical attention and special treatment needed: None

Section 5 - Fire-Fighting Measures

Suitable Extinguishing Media: Water in spray jet, CO₂

Unsuitable Extinguishing Media: Unknown.

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: May include, but are not limited to, CO and CO₂.

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

Personal precautions, protective equipment, and emergency procedures: Minimize airborne dust. Dust mask and goggles are recommended to prevent possible irritation from airborne fibers. Cleansing the skin after handling is advisable.

Methods and materials for containment and cleaning up: To avoid dispersal of dust in the air, compressed air and dry sweeping should not be used for cleaning. Vacuum up, wet sweep, or use a dust suppressant if sweeping is necessary. Wet material may cause the walking surface to become slippery. Place in closed containers for disposal.

Section 7 - Handling and Storage

Precautions for Safe Handling: Limit use of power tools unless in conjunction with local exhaust. Use hand tools whenever possible. Dry powders can cause static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions such as electrical grounding and bonding, or inert atmospheres.

Storage Requirements: Maintain good housekeeping to control dust accumulations. Storage with, or next to, chlorine or chlorinated products is not recommended.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Use engineering controls such as local exhaust ventilation, point of generation dust collection, down draft work stations, emission controlling tool designs, and material handling equipment designed to reduce airborne fiber concentrations to the lowest attainable level. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents, an explosion suppression system, or an oxygen-deficient environment.

Use only appropriately classified electrical equipment and powered industrial trucks.

Administrative Controls:

Respiratory Protection: Dust mask. When engineering and/or administrative controls are insufficient to maintain workplace concentrations below the 0.5f/cc REG a NIOSH certified respirator with a filter efficiency of at least 95% should be used. The 95% filter efficiency recommendation is based on NIOSH respiratory selection logic sequence for exposure to manmade mineral fibers. Pursuant to NIOSH recommendations, N-95 respirators are appropriate for exposures up to 10 times the NIOSH Recommended Exposure Limit (REL). With respect to RCF, both the NIOSH REL and the industry REG have been set at 0.5 fibers per cubic centimeter of air (f/cc). Accordingly, N-95 would provide the necessary protection for exposures up to 5 f/cc.

In cases where exposures are known to be above 5.0 f/cc, 8 hour TWA, a filter efficiency of 100% should be used.

Protective Clothing/Equipment:

Eyes: Wear goggles or safety glasses with side shields.

Skin: Wear gloves as necessary to prevent skin irritation. Washable or disposable clothing may be used. If possible, do not take unwashed clothing home. If soiled work clothing must be taken home, employees should be informed on best practices to minimize non-work dust exposure (e.g., vacuum clothes before leaving the work area, wash work clothing separately, and rinse washer before washing other household clothes).

When using do not eat, drink, or smoke.

Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Refractories, fibers, aluminosilicate	none estab.*	none estab.	none estab.	none estab.

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

*Except in the state of California, there is no specific regulatory standard for RCF in the US. OSHA's Particulate Not Otherwise Regulated (PNOR) standard applies generally:

Total Dust: 15 mg/m³; Respirable Fraction: 5 mg/m³

The PEL for RCF in California is 0.2 f/cc, 8hr-TWA

**HTIW Coalition has sponsored comprehensive toxicology and epidemiology studies to identify potential RCF-related health effects (See Section 11 for more details), consulted experts familiar with fiber and particle science, conducted a thorough review of the RCF-related scientific literature, and further evaluated the data in a state-of-the-art quantitative risk assessment. Based on these efforts and in the absence of an OSHA PEL, HTIW Coalition has adopted a recommended exposure guideline (REG), as measured under NIOSH Method 7400B. The manufacturers' REG is intended to promote occupational health and safety through feasible exposure controls and reductions as determined by extensive industrial hygiene monitoring efforts undertaken voluntarily and pursuant to an agreement with the US EPA.

Section 9 - Physical and Chemical Properties

Appearance: white fibers	Vapor Pressure: not applicable
Odor: odorless	Vapor Density (Air=1): not applicable
Odor Threshold: not applicable	Water Solubility: not applicable
pH: not available	Other Solubilities: not available
Freezing/Melting Point: not available	Relative Density: not available
Boiling Point: not available	Partition coefficient: n-octanol/water; not applicable
Flash Point: >392°F (>200°C)	Auto-ignition Temperature: not applicable
Evaporation Rate: not applicable	Decomposition Temperature: not applicable
Flammability: Non-flammable	Viscosity: not applicable
Upper/lower flammability or explosive limits: not applicable	

Section 10 - Stability and Reactivity

Reactivity: This product is stable at room temperature in closed containers under normal storage and handling conditions.
Chemical Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.
Possibility of Hazardous Reactions: None known.
Conditions to Avoid: Dusty conditions.
Incompatible Materials: Strong oxidizers, chlorine, chlorinated products.
Hazardous Decomposition Products: Carbon oxides, organic acids.

Section 11 – Toxicological Information

Information on the likely routes of exposure:

Inhalation: Possible inhalation of airborne fibers or fiber dust.
Eye: Possible contact with airborne fibers or fiber dust.
Skin: Absorption not known to occur.
Ingestion: Unlikely to occur.

Symptoms related to the physical, chemical, and toxicological characteristics:

Inhalation: Respiratory irritation. May include coughing, sneezing, or itching of the nasal passages.
Eye: Eye irritation may include itching, watering, or redness of the eyes.
Skin: Skin irritation. May include itching and redness of the skin.
Ingestion: Ingestion of large amounts of fibers may cause gastrointestinal blockage, which can cause stomach distress.

Delayed and immediate effects and also chronic effects from short- and long-term exposure: May include respiratory, skin, or eye irritation.

Numerical measures of toxicity: Not available.

Carcinogenicity: IARC has classified refractory fibers as a possible human carcinogen (Group 2B). OSHA and NTP: Not listed.

Section 12 - Ecological Information

Eco-toxicity: Data not available.
Persistence and degradability: Not available.
Bio-accumulative potential: Not applicable.
Mobility in soil: Not applicable

Section 13 - Disposal Considerations

Disposal: Dispose as solid waste in sanitary landfill according to Federal, State, and local regulations. Disposal via septic or sewage systems is not recommended.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

This product is not classified as dangerous under the transport regulations for road, rail, sea, or air transport.

UN Number: Not hazardous

UN proper shipping name: Not hazardous

Transport hazard classes: Not hazardous

Packing group, if applicable: Not hazardous

Environmental hazards: Not hazardous

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not hazardous

Special precautions: None

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 Section 313(40 CFR 372.65): Not listed

SARA EHS Section 302 (Extremely Hazardous Substance) (40 CFR 355): Not listed

SARA Hazardous Chemical Section 311/312: Delayed hazard

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

Disclaimer: Information contained herein is presented in good faith and is based on data believed to be accurate. However no warranty is expressed or implied regarding this information or the results obtained from the use of this Safety Data Sheet, whether it originates with The R. J. Marshall Company or others. This Safety Data Sheet relates only to the specific material designated herein. It does not relate to use with other material or processes. This information is supplied with the condition that the user will make appropriate determination as to its suitability for their purpose prior to using it.