



# Tuff-Stuff® MS

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 05/06/2018

Date of Issue: 02/19/2019

Version: 2.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** Tuff-Stuff MS

**Product Code:** 2130

#### Intended Use of the Product

Moisture-curing, single-component, non-sag, adhesive sealant that contains no solvents. For professional use only.

#### Name, Address, and Telephone of the Responsible Party

##### Manufacturer

The Garland Company, Inc.  
3800 East 91<sup>st</sup> Street  
Cleveland, Ohio 44105-2197  
T-800-762-8225  
F-216-641-0633  
www.garlandco.com

##### Supplier

The Garland Company, Inc.  
3800 East 91<sup>st</sup> Street  
Cleveland, Ohio 44105-2197  
T-800-762-8225  
F-216-641-0633

The Garland Company, Inc.  
209 Carrier Drive  
Toronto, Ontario M9W 5Y8  
T-416-747-7995 800-387-5991  
F-416-747-1980

#### Emergency Telephone Number

**Emergency Number:** 1-800-262-8200 (CHEMTREC)

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### Classification (GHS-US)

Skin Sens. 1	H317
Eye Irrit. 2B	H320
Carc. 1A	H350
Repr. 1B	H360
Aqua. Acute 2	H401
Aqua. Chron. 3	H412

#### Label Elements

##### GHS-US Labeling

##### Hazard Pictograms (GHS-US)



##### Signal Word (GHS-US)

: Danger

##### Hazard Statements (GHS-US)

: H317 - May cause an allergic skin reaction.  
H320 - Causes serious eye irritation.  
H350 - May cause cancer.  
H360 - May damage fertility or the unborn child.  
H401 - Toxic to aquatic life.  
H412 - Harmful to aquatic life with long lasting effects.

##### Precautionary Statements (GHS-US)

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash thoroughly after handling.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 - If on skin: Wash with plenty of water.  
P305+P351+P338 - If in eyes: Rinse cautiously 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/attention.  
P321 - Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P363 - Wash contaminated clothing before reuse.

# Tuff-Stuff® MS

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: 05/06/2018

Date of issue: 02/19/2019

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

### Unknown Acute Toxicity (GHS-US)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product identifier	% (w/w)
Calcium Carbonate	(CAS No) 1317-65-3	25-50
Natural Limestone	(CAS) 1317-65-32	25-50
Diisodecyl Phthalate	(CAS) 68515-49-1	15-35
Stearic Acid	(CAS) 57-11-4	5-10
Titanium Dioxide	(CAS No) 13463-67-7	4-10
Trimethoxyvinylsilane	(CAS) 2768-02-7	<2.5
Methanol	(CAS) 67-56-1	<2.5
N-(3-(trimethoxysilyl)propyl)ethylenediamine	(CAS) 1760-24-3	<2.5
2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol	(CAS) 25973-55-1	<2.5
Quartz	(CAS) 14808-60-7	<2.5

Full text of H-Phrases: See Section 16

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.

**First-aid Measures After Inhalation:** Move to fresh air.

**First-aid Measures After Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

**First-aid Measures After Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

**First-aid Measures After Ingestion:** Consult a physician.

### Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media:** Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry powder. Water. Dry chemical.

**Unsuitable Extinguishing Media:** Not available

### Special Hazards Arising From the Substance or Mixture

Hazardous decomposition products include: carbon dioxide, carbon monoxide and incompletely burnt hydrocarbons.

### Advice for Firefighters

**Firefighting Instructions:** Exercise caution when fighting any chemical fire.

**Protection During Firefighting:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### Reference to Other Sections

Refer to section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Ensure adequate ventilation. Wear protective equipment. Keep unprotected persons away. Avoid contact with skin, eyes and clothing. Do not breathe vapor. Product is slippery when spilled.

#### For Non-emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Responders

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

### Environmental Precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Remove all sources of ignition.

### Methods and Material for Containment and Cleaning Up

**For Containment:** Contain with inert absorbent material.

**Methods for Cleaning Up:** Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Clean

# Tuff-Stuff® MS

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: 05/06/2018

Date of issue: 02/19/2019

contaminated surface thoroughly. After cleaning, flush away traces with water.

### Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

**Precautions for Safe Handling:** Wear personal protective equipment. Avoid contact with skin and eyes.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

### Conditions for Safe Storage, Including Any Incompatibilities

**Storage Conditions:** Store in a cool, dry place. Store in a well-ventilated place. Store in the original container. Protect from moisture. Keep out of the reach of children.

### Specific End Use(s)

No further relevant information available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Titanium Dioxide (13463-67-7)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m <sup>3</sup> )	5000 mg/m <sup>3</sup>
Calcium Carbonate (1317-65-3)		
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Natural Limestone (1317-65-3)		
USA NIOSH	TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
USA OSHA	TWA (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
Diisodecyl Phthalate (68515-49-1)		
USA OSHA	OSHA PEL (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Methanol (67-56-1)		
USA OSHA	PEL, REL, TLV (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
Quartz (14808-60-7)		
USA OSHA	OSHA PEL (mg/m <sup>3</sup> )	.05 mg/m <sup>3</sup> As respirable fraction

### Exposure Controls

**Appropriate Engineering Controls:** No information available.

**Personal Protective Equipment:** Safety glasses with side-shields. Impervious gloves. No special protective equipment required.



**Hand Protection:** Protective gloves.

**Eye Protection:** Use chemical safety goggles and/or a full-face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

**Skin and Body Protection:** Protective gloves should be worn for prolonged or repeated contact. Protective cream may be useful when repeated skin contact is expected.

**Respiratory Protection:** NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

**Other Information:** When using, do not eat, drink, or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Paste
Appearance	: Various
Density @ 20C (68)F	: 1.66 g/cm <sup>3</sup> (13.8527 lbs./gal.)
Odor	: Slight

# Tuff-Stuff® MS

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: 05/06/2018

Date of issue: 02/19/2019

<b>Flash Point</b>	:	>200C (>392F)
<b>Ignition Temperature</b>	:	>395C (>743F)
<b>Volatile Organic Compounds</b>	:	20 g/L

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Stable.

**Chemical Stability:** Stable under ordinary conditions of use and storage.

**Possibility of Hazardous Reactions:** None under normal processing.

**Conditions to Avoid:** Avoid heat, flames and sparks. Avoid contact with incompatible materials.

**Incompatible Materials:** Strong acids. Strong oxidizing agents.

**Hazardous Decomposition Products:** Upon decomposition, this product emits carbon monoxide, carbon dioxide and or low molecular weight hydrocarbons.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects – Ingredient(s)

#### LD50 and LC50 Data

##### Calcium Carbonate (1317-65-3)

IARC Group	None
------------	------

##### Titanium Dioxide (13463-67-7)

IARC Group	2B
National Toxicity Program (NTP) Status	Reasonable Anticipated to Be a Human Carcinogen
The IARC classification was based on high concentrations of titanium dioxide particles in animal lungs.	

##### Methanol (67-56-1)

LD50, rat	1,187 mg/kg oral
LD50, rabbit	17,100 mg/kg dermal
LC 50/4hour, rat	128.2 mg/l inhalative
LC 50/96hour, trout	15,400 mg/l inhalative

##### Quartz (14808-60-7)

LD50, rat	>22,500 mg/kg oral
LC 50/96hour, trout	1,033 mg/l inhalative

##### Natural Limestone (1317-65-3)

LD50, rat	6,450 mg/kg
-----------	-------------

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity – Ingredients

### Persistence and Degradability

Not established.

### Bioaccumulative Potential – Product

Not established.

### Mobility in Soil

No additional information available.

### Other Adverse Effects

**Other Information:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of in accordance with local, state, and federal regulations.

**Contaminated Packaging:** Empty containers should be taken for local recycling, recovery or waste disposal

**Additional Information:** Prevent runoff from entering drains, sewers, or waterways.

## SECTION 14: TRANSPORT INFORMATION

### In Accordance with DOT

**Special Provisions** : Not regulated

### In Accordance with IMDG

**Proper Shipping Name** : Not regulated

### In Accordance with IATA

**Proper Shipping Name** : Not regulated

# Tuff-Stuff® MS

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: 05/06/2018

Date of issue: 02/19/2019

### In Accordance with TDG

**Special Provisions** : Not regulated

## **SECTION 15: REGULATORY INFORMATION**

### US Federal Regulations

#### **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

#### **Section 313 (Specific toxic chemical listings):**

67-56-1 Methanol

#### **TSCA (Toxic Substances Control Act):**

471-34-1 Calcium Carbonate

1317-65-3 Natural limestone

68515-49-1 Diisodecyl Phthalate

57-11-4 Stearic Acid, pure

13463-67-7 Titanium Dioxide

2768-02-7 Trimethoxyvinylsilane

67-56-1 Methanol

1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine

52829-07-9 Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

25973-55-1 2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol

14808-60-7 Quartz (SiO<sub>2</sub>)

#### **California Proposition 65:**

Warning: This product contains a chemical known in the state of California to cause birth defects.

#### **Chemicals known to cause cancer:**

13463-67-7 Titanium Dioxide

14808-60-7 Quartz (SiO<sub>2</sub>)

#### **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

#### **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

#### **Chemicals known to cause developmental toxicity:**

68515-49-1 Diisodecyl Phthalate

67-56-1 Methanol

#### **New Jersey Right-to-Know List:**

1317-65-3 Natural limestone

13463-67-7 Titanium Dioxide

67-56-1 Methanol

14808-60-7 Quartz (SiO<sub>2</sub>)

#### **New Jersey Special Hazardous Substance List:**

67-56-1 Methanol TE, F3

14808-60-7 Quartz (SiO<sub>2</sub>) CA

#### **Pennsylvania Right-to-Know List:**

1317-65-3 Natural limestone

13463-67-7 Titanium Dioxide

14808-60-7 Quartz (SiO<sub>2</sub>)

#### **Pennsylvania Special Hazardous Substance List:**

None of the ingredients are listed.

#### **Carcinogenic categories:**

#### **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

#### **TLV (Threshold Limit Value established by ACGIH):**

13463-67-7 Titanium Dioxide A4

14808-60-7 Quartz (SiO<sub>2</sub>) A2

#### **NIOSH-Ca (National Institute for Occupational Safety and Health):**

13463-67-7 Titanium Dioxide

14808-60-7 Quartz (SiO<sub>2</sub>)

### Canadian Regulations

## **SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**

# Tuff-Stuff® MS

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: 05/06/2018

Date of issue: 02/19/2019

---

**Revision date** : 02/19/2019

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### Party Responsible for the Preparation of This Document

The Garland Company, Inc.

3800 East 91<sup>st</sup> Street

Cleveland, Ohio 44105-2197

T-800-762-8225

*This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety, and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.*

North America GHS US 2019 & WHMIS