



since 1895

Material Safety Data Sheet

NFPA	WHMIS	PPE	Transport Symbol
			DOT Not Regulated

Preparation Date No data available

Revision Date 24-Mar-2010

Revision Number 4

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Tuff-Stuff™
Product Code 2135/2136
UN-No Not available

Contact Manufacturer
 The Garland Company, Inc.
 3800 East 91st. Street
 Cleveland, Ohio 44105-2197
 Ph: (800) 762-8225 Fax: (216) 641-0633

Garland Canada, Inc.
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 Toronto, Ontario M9W 4X3
 Ph: (416)747-7995 Fax: (416)747-1980

Emergency Telephone Number 1-800-762-8225 (24 Hrs.)

2. HAZARDS IDENTIFICATION

Emergency Overview

Combustible material

Appearance Not available

Physical State Liquid. Solid.

Odor Petroleum distillates.

Mexico - Grade Moderate risk, Grade 2

Potential Health Effects

Principle Routes of Exposure Skin contact, Inhalation.

Acute Effects

Eyes Contact with eyes may cause irritation.
Skin Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Inhalation Irritating to mucous membranes.
Ingestion May be harmful if swallowed.

Chronic Effects Repeated contact may cause allergic reactions in very susceptible persons.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Not available

Interactions with Other Chemicals Not available

Potential Environmental Effects See Section 12 for additional Ecological information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
Calcium Carbonate	1317-65-3	30 - 60	1
Silica Dioxide	7631-86-9	1 - 5	1

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact Wash off immediately with soap and plenty of water.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion Drink plenty of water. Consult a physician.

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide (CO₂). Foam. Dry chemical.

Unsuitable Extinguishing Media Not available

Hazardous Combustion Products Carbon dioxide (CO₂), Hydrocarbons.

Explosion Data

Sensitivity to mechanical impact	No
Sensitivity to static discharge	Yes

Specific Hazards Arising from the Chemical

Combustible material. Keep product and empty container away from heat and sources of ignition.

Protective Equipment and Precautions for Firefighters

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

NFPA

Health 2

Flammability 1

Instability 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment	No information available
Methods for Cleaning Up	Shovel or sweep up. Keep in suitable and closed containers for disposal.
Other Information	Not applicable

7. HANDLING AND STORAGE

Handling	Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition.
Storage	Keep in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico
Calcium Carbonate		TWA: 15 mg/m ³ TWA: 5 mg/m ³	TWA: 10 mg/m ³	STEL: 20 mg/m ³ TWA: 10 mg/m ³

Chemical Name	NIOSH IDLH
Silica Dioxide	3000 mg/m ³

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Do not allow ventilation equipment to draw material odors indoors..
Personal Protective Equipment	
Eye/face Protection	Safety glasses with side-shields
Skin Protection	Impervious gloves
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Not available	
Odor	Petroleum distillates	
Physical State	Liquid Solid	
pH	Not available	
Flash Point	> 200°F / > 93°C	
Method	Tag closed cup	
Autoignition Temperature	Not available	
Boiling Point/Range	Not available	
Freezing Point	Not available	
Flammability Limits in Air	Lower Not available	Upper Not available
Explosive Properties	Not available	
Oxidizing Properties	Not available	
Evaporation Rate	Slower than Ether (ether = 1)	
Vapor Pressure	Not available	
Vapor Density	Not available	
Specific Gravity	1.4	
Water Solubility	Insoluble in water	
Volatiles	Not available	
VOC Content	< 100 g/l	

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	Heat, flames and sparks. Protect from water.
Incompatible Materials	No materials to be especially mentioned
Hazardous Decomposition Products	Nitrogen oxides (NOx). Carbon dioxide (CO2).
Possibility of Hazardous Reactions	Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Silica Dioxide	5000 mg/kg Rat	2000 mg/kg Rabbit	

Chronic Toxicity

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen

12. ECOLOGICAL INFORMATION

Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants

Silica Dioxide**Freshwater Algae Data**

Selenastrum capricornutum EC50=440 mg/L (72 h)

Water Flea Data

Ceriodaphnia dubia EC50=7600 mg/L (48 h)

Persistence/Degradability

Not available

Bioaccumulation/ Accumulation

Not available

Mobility in Environmental Media

Not available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with local regulations.

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

US EPA Waste Number

Not available

14. TRANSPORT INFORMATION

DOT

Not Regulated

TDG

Not Regulated

MEX

Not regulated

ICAO

Not regulated

IATA

Not regulated

IMDG/IMO

Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Calcium Carbonate	X	-	X	X	-	-	X	X	X	X
Silica Dioxide	X	X	-	X	X	X	X	X	X	X

TSCA

All components of this product are either listed or are exempt from listing on the U.S. Toxic Substances Control Act (TSCA).

DSL

Not regulated

NDSL	Does not Comply
EINECS	Does not Comply
ELINCS	Does not Comply
ENCS	Does not Comply
CHINA	Complies
KECL	Does not Comply
PICCS	Does not Comply
AICS	Complies

USA**Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

State Regulations**California Proposition 65**

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

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Calcium Carbonate	X		X		X
Silica Dioxide	X	X	X		

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D2A Very toxic materials

16. OTHER INFORMATION

Revision Date 12-Apr-2007

Revision Summary Not available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS

