

Version: 1.1 Revision Date: 09/26/2016

# SAFETY DATA SHEET

# 1. Identification

Material name: TRISOTECH G ROOF INSULATION 2.8" Material: 305280 550

# Recommended use and restriction on use

Recommended use: Article Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S. Roofing 3735 Green Road Beachwood OH 44122 US

Contact person: Telephone: Emergency telephone number: EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

# 2. Hazard(s) identification

#### **Hazard Classification**

#### **Health Hazards**

Carcinogenicity	Category 1B
Unknown toxicity - Health	
Acute toxicity, oral	90 %
Acute toxicity, dermal	100 %
Acute toxicity, inhalation, vapor	100 %
Acute toxicity, inhalation, dust or mist	100 %
Unknown toxicity - Environment	
Acute hazards to the aquatic	100 %
environment	
Chronic hazards to the aquatic	100 %

#### Label Elements

#### Hazard Symbol:

environment



Signal Word:

Precautionary

Danger

Hazard Statement:

May cause cancer.

00000002918



Statements: Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	If exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification:	None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Fibrous Glass	65997-17-3	5 - <10%
Pentane	109-66-0	1 - <5%
Carbon Black	1333-86-4	1 - <5%
* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by y		

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures	
Ingestion:	Call a POISON CENTER/doctor//if you feel unwell. Rinse mouth.
Inhalation:	Move to fresh air.
Skin Contact:	Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
Eye contact:	Rinse immediately with plenty of water.
Most important symptoms/	effects, acute and delayed
Symptoms:	May cause skin and eye irritation.
Indication of immediate med	lical attention and special treatment needed
Treatment:	Symptoms may be delayed.
5. Fire-fighting measures	
General Fire Hazards:	No unusual fire or explosion hazards noted.



# Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
6. Accidental release measures	s
Personal precautions, protective equipment and emergency procedures:	No data available.
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.
7. Handling and storage	
Precautions for safe handling:	Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required.
Conditions for safe storage, including any incompatibilities:	Store locked up.
8. Exposure controls/personal	protection

Control Parameters Occupational Exposure Limits



Chemical Identity	type	Exposure Limit Values	Source
Fibrous Glass -	TWA	5 mg/m	3 US. ACGIH Threshold Limit Values
Inhalable fraction.			(03 2014)
Fibrous Glass - Fiber.	TWA		1 US. ACGIH Threshold Limit Values
		fibers/cm	3 (03 2014)
	TWA		1 US. ACGIH Threshold Limit Values
		fibers/cm	3 (03 2014)
	TWA		1 US. ACGIH Threshold Limit Values
		fibers/cm	3 (03 2014)
	TWA		1 US. ACGIH Threshold Limit Values
		fibers/cm	3 (03 2014)
	TWA		1 US. ACGIH Threshold Limit Values
		fibers/cm	3 (03 2014)
	TWA	0.	2 US. ACGIH Threshold Limit Values
		fibers/cm	3 (03 2014)
Pentane	TWA	1,000 ppm	US. ACGIH Threshold Limit Values
			(02 2014)
	PEL	1,000 ppm 2,95	0 US. OSHA Table Z-1 Limits for Air
		mg/m	
			(02 2006)
Carbon Black -	TWA	3 mg/m	3 US. ACGIH Threshold Limit Values
Inhalable fraction.			(2011)
Carbon Black	PEL	3.5 mg/m	
			Contaminants (29 CFR 1910.1000)
			(02 2006)

Chemical name	type	Exposure Limit Values	Source
Fibrous Glass - Fiber.	TWA	0.2 fibers/cm3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	1 fibers/cm3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



Fibrous Glass - Inhalable fibers.	TWA	5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Fibrous Glass - Inhalable	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Fibrous Glass - Respirable fibers.	TWA	1 fibers/mL	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Fibrous Glass - Fiber.	TWA	0.2 fibers/mL	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Fibrous Glass - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Fibrous Glass - Fiber.	TWA	1 fibres/cm3 (non- asbestos fibres) size restriction s apply	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
	TWA	2 fibres/cm3 (non- asbestos fibres) size restriction s apply	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)



Pentane	TWA	600 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Pentane	TWA	600 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Pentane	TWA	120 ppm 38 mg/n	<ul> <li>Canada. Quebec OELs. (Ministry of</li> <li>Labor - Regulation Respecting the</li> <li>Quality of the Work Environment) (12</li> <li>2008)</li> </ul>
Carbon Black - Inhalable	TWA	3 mg/n	<ul> <li>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)</li> </ul>
Carbon Black	TWA	3.5 mg/n	n3 Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Carbon Black	TWA	3.5 mg/n	<ul> <li>Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)</li> </ul>

Appropriate Engineering<br/>ControlsMechanical ventilation or local exhaust ventilation may be required.<br/>Observe good industrial hygiene practices. Observe occupational exposure<br/>limits and minimize the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment

General information:	Use personal protective equipment as required.
Eye/face protection:	Wear goggles/face shield.
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.
Other:	No data available.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product.

# 9. Physical and chemical properties

# Appearance

Physical state:	solid
Form:	solid
Color:	Black
Odor:	Slight
Odor threshold:	No data available.



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pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	No data available.
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosive	/e limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	1.1
Solubility(ies)	
Solubility in water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

# 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

# 11. Toxicological information

Information on likely routes of exposure	
Ingestion:	May be harmful if swallowed.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Moderately irritating to skin with prolonged exposure.
Eye contact:	Eye contact is possible and should be avoided.



# Information on toxicological effects

Oral Product:	ATEmix: 4,000 mg/kg
Dermal Product:	No data available.
Inhalation Product:	No data available.
Specified substance(s): Pentane	LC 50 (Rat, 4 h): 364 mg/l
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Specified substance(s): Fibrous Glass	in vivo (Rabbit): Experimental result, Key study
Pentane	in vivo (Rabbit): Experimental result, Key study
Carbon Black	in vivo (Rabbit): Experimental result, Key study
Serious Eye Damage/Eye Irritation Product: No data available.	
<b>Specified substance(s):</b> Pentane	Irritating in vivo (Rabbit, 48 hrs): Not irritating in vivo (Rabbit, 24 hrs): Not irritating in vivo (Rabbit, 1 hrs): Not irritating in vivo (Rabbit, 1 hrs): Not irritating

# Carbon Black in vivo (Rabbit, 24 - 72 hrs): Not irritating

# **Respiratory or Skin Sensitization**

No data available.

# Carcinogenicity Product:

Product:

May cause cancer.



# IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

	us Glass on Black	Overall evaluation: Not classifiable as to carcinogenicity to humans. Overall evaluation: Not classifiable as to carcinogenicity to humans. Overall evaluation: Possibly carcinogenic to humans. Overall evaluation: Possibly carcinogenic to humans. Overall evaluation: Possibly carcinogenic to humans.
	<b>cology Progra</b> i us Glass	n (NTP) Report on Carcinogens: Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified		
Germ Cell Mutage	enicity	
In vitro Product:		No data available.
In vivo Product:		No data available.
Reproductive tox Product:	icity	No data available.
Specific Target Organ Toxicity - Single Exposure         Product:       No data available.		
Specific Target O Product:	rgan Toxicity -	Repeated Exposure No data available.
Aspiration Hazard Product:	i	No data available.
Other effects:		No data available.

# 12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product:

No data available.



Aquatic Invertebrates Product:	No data available.
Chronic hazards to the aquation	c environment:
Fish Product:	No data available.
Specified substance(s): Pentane	NOAEL (Oncorhynchus mykiss, 28 d): 6.165 mg/l QSAR QSAR, Key study
Carbon Black	NOAEL (Salmo sp., 30 d): 17 mg/l QSAR QSAR, Key study
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
BOD/COD Ratio Product:	No data available.
Bioaccumulative Potential Bioconcentration Factor (BC Product:	CF) No data available.
Partition Coefficient n-octanol / water (log Kow) Product: No data available.	
Specified substance(s): Pentane	Log Kow: 3.39
Mobility in Soil:	No data available.
Other Adverse Effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.



# 14. Transport information

# TDG:

Not Regulated

# CFR / DOT:

Not Regulated

# IMDG:

Not Regulated

# 15. Regulatory information

#### **US Federal Regulations**

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

# CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	<b>Reportable quantity</b>
Pentane	100 lbs.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Delayed (Chronic) Health Hazard

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification	
Chemical Identity	<b>Reportable quantity</b>
Pentane	100 lbs.

# SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Fibrous Glass	500 lbs
Pentane	500 lbs
Carbon Black	500 lbs

## SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

# Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.



One or more components in this product are not listed on or exempt from the Inventory.

All components in this product are listed on or

One or more components in this product are

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

not listed on or exempt from the Inventory.

exempt from the Inventory.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Chemical Identity Pentane Reportable quantity

# **US State Regulations**

# **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

## US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity Fibrous Glass Pentane Carbon Black

# **US. Massachusetts RTK - Substance List**

<u>Chemical Identity</u> Fibrous Glass Pentane

#### US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u> Fibrous Glass Pentane

# US. Rhode Island RTK

Chemical Identity Pentane

# Other Regulations:

Regulatory VOC (less water	0 g/l
and exempt solvent):	
VOC Method 310:	0.00 %

## **Inventory Status:**

Australia AICS:

Canada DSL Inventory List:

EINECS, ELINCS or NLP:

Japan (ENCS) List:

China Inv. Existing Chemical Substances:



Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	One or more components in this product are not listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Mexico INSQ:	One or more components in this product are not listed on or exempt from the Inventory.
Ontario Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Taiwan Chemical Substance Inventory:	One or more components in this product are not listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision

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Further Information:	No data available.
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