

SAFETY DATA SHEET

1. Identification

Material name: TRISOTECH CGF ROOF INSULATION 2.6" Material: 305260TCGF550

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

Acute toxicity (Inhalation - vapor)	Category 3
Acute toxicity (Inhalation - dust and mist)	Category 3
Skin sensitizer	Category 1
Carcinogenicity	Category 1A

Unknown toxicity - Health

Acute toxicity, oral	63.75 %
Acute toxicity, dermal	86.25 %
Acute toxicity, inhalation, vapor	99.5 %
Acute toxicity, inhalation, dust or mist	99.5 %

Environmental Hazards

Chronic hazards to the aquatic	Category 3
environment	

Unknown toxicity - Environment

Acute hazards to the aquatic	99.5 %
environment	
Chronic hazards to the aquatic	97.5 %
environment	



Label Elements

Hazard Symbol:

	Denser
Signal Word:	Danger
Hazard Statement:	Toxic if inhaled. May cause an allergic skin reaction. May cause cancer. Harmful to aquatic life with long lasting effects.
Precautionary Statements	
Prevention:	Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in well-ventilated area. Contaminated work clothing should not be allowed ou of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment.
Response:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN: Wash with plenty of water/ If skin irritation or ras occurs: Get medical advice/attention. Call a POISON CENTER/doctor/ I exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Wash contaminated clothing before reuse.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locke 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.
rd(s) not otherwise ified (HNOC):	None.

Mixtures



Fibrous Glass	65997-17-3	20 - <50%
Calcium Carbonate (Limestone)	1317-65-3	10 - <20%
Pentane	109-66-0	2.5 - <5%
Formaldehyde	50-00-0	0.1 - <1%
Amorphous silica	7631-86-9	0.1 - <1%

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

4. First-aid measures

Description of necessary	/ first-aid measures
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Inhalation:	Move to fresh air.		
Skin Contact:	If skin irritation occurs: Get medical advice/attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.		
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.		
Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.		
Personal Protection for First- aid Responders:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		
Most important symptoms/effe	cts, acute and delayed		
Symptoms:	May cause skin and eye irritation.		
Hazards:	No data available.		
Indication of immediate medica	al 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.		



Special protective equipment and precautions for firefighters

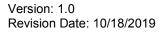
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.	
Accidental release measures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.	
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.	
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.	
7. Handling and storage		
Handling		
Technical measures (e.g. Local and general ventilation):	Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.	
Safe handling advice:	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. Avoid contact with eyes, skin, and clothing. 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.	
Contact avoidance measures:	No data available.	
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.	
Storage		
Safe storage conditions:	Store locked up.	
Safe packaging materials:	No data available.	

8. Exposure controls/personal protection

Control Parameters Occupational Exposure Limits





Chemical Identity	Туре	Exposure Limit Values	Source
Fibrous Glass - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2014)
Fibrous Glass - Fiber.	TWA	1 fibers/cm3	US. ACGIH Threshold Limit Values, as amended (03 2018)
	TWA	1 fibers/cm3	US. ACGIH Threshold Limit Values, as amended (03 2018)
	TWA	1 fibers/cm3	US. ACGIH Threshold Limit Values, as amended (03 2018)
	TWA	1 fibers/cm3	US. ACGIH Threshold Limit Values, as amended (03 2018)
	TWA	1 fibers/cm3	US. ACGIH Threshold Limit Values, as amended (03 2018)
	TWA	0.2 fibers/cm3	US. ACGIH Threshold Limit Values, as amended (03 2018)
Calcium Carbonate (Limestone) - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Calcium Carbonate (Limestone) - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Pentane	TWA	1,000 ppm	US. ACGIH Threshold Limit Values, as amended (02 2014)
	PEL	1,000 ppm 2,950 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Formaldehyde	STEL	0.3 ppm	US. ACGIH Threshold Limit Values, as amended (03 2017)
	TWA	0.1 ppm	US. ACGIH Threshold Limit Values, as amended (03 2017)
	TWA	0.75 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (02 2006)
	STEL	2 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (02 2006)
	OSHA_AC T	0.5 ppm	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (02 2006)
Amorphous silica	TWA	20 millions of particles per cubic foot of air	US. ÓSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)

Chemical name	Туре	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 fraction.	TWA		5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Fibrous Glass - Fiber.	TWA		2 fibres/cm3 (non- asbestos bres) size restrictions apply	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
	TWA		l fibres/cm3 (non- asbestos bres) size restrictions apply	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Fibrous Glass - fibers, total dust	TWA		10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Fibrous Glass - Respirable fibers.	TWA		1 Fibers/cc	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017)
	TWA	0	.5 Fibers/cc	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017)
Calcium Carbonate (Limestone) - Total dust.	STEL		20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA		10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Respirable fraction.	TWA		3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA		10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Pentane	TWA	120 ppm	350 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Pentane	TWA	1,000 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017)
Pentane	TWA	1,000 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2018)
Formaldehyde	TWA	0.3 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	CEILING	1 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Formaldehyde	STEL	1 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	CEV	1.5 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)



Formaldehyde	CEILING	2 ppm 3 mg/m	3 Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Amorphous silica - Total	TWA	4 mg/m	3 Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable.	TWA	1.5 mg/m	3 Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable dust.	TWA	6 mg/m	3 Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)

Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure 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:	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.	
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. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.	

9. Physical and chemical properties

Appearance	
Physical state:	solid
Form:	No data available.
Color:	No data available.
Odor:	Odorless
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	> 121 °C > 250 °F
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 explos	ive 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:	No data available.
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

Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and
	mucus membranes.

Skin Contact:	Causes mild skin irritation. May cause an allergic skin rea	action.
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- **Eye contact:** Eye contact is possible and should be avoided.
- Ingestion: May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

Ingestion: No data available.



Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix: 7,250 mg/kg
Dermal Product:	ATEmix: 8,250 mg/kg
Inhalation Product:	ATEmix: 3 mg/l ATEmix : 0.51 mg/l
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Specified substance(s): Fibrous Glass	in vivo (Rabbit): Not irritant
Pentane	in vivo (Rabbit): Not classified as an Irritant
Formaldehyde	in vivo (Rabbit): Corrosive
Serious Eye Damage/Eye Irritatio Product: Specified substance(s):	on No data available.
Pentane	Irritating Rabbit, 48 hrs: Not irritating Rabbit, 24 hrs: Not irritating Rabbit, 1 hrs: Not irritating Rabbit, 1 hrs: Not irritating
Respiratory or Skin Sensitization	1

Respiratory or Skin Sensitization		
Product:	No data available.	

Carcinogenicity Product:

No data available.



IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:	
Fibrous Glass	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.
Formaldehyde	Overall evaluation: Carcinogenic to humans.
Fibrous Glass	am (NTP) Report on Carcinogens: Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.
Formaldehyde	Known To Be Human Carcinogen.
US. OSHA Specifically Regulate Formaldehyde	ed Substances (29 CFR 1910.1001-1050):
	Cancer
Germ Cell Mutagenicity	
In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	No data available.
Specific Target Organ Toxicity Product:	- Single Exposure No data available.
Specific Target Organ Toxicity Product:	- Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
Other effects:	No data available.



12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product:	No data available.
Specified substance(s): Formaldehyde	LC 50 (Zebra danio (Danio rerio), 96 h): 41 mg/l Mortality
Aquatic Invertebrates Product:	No data available.
Specified substance(s): Formaldehyde	EC 50 (Water flea (Daphnia magna), 48 h): 29 mg/l Intoxication
Chronic hazards to the aquati	c environment:
Fish Product:	No data available.
Specified substance(s): Pentane	NOAEL (Oncorhynchus mykiss, 28 d): 6.165 mg/l QSAR QSAR, Key study
Formaldehyde	NOAEL (Oryzias latipes, 28 d): >= 48 mg/l Experimental result, Supporting 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
Formaldehyde	Log Kow: 0.35
Mobility in soil:	No data available.
Other adverse effects:	Harmful to aquatic life with long lasting effects.
13. Disposal considerations	
Disposal methods:	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. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.



US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Chemical Identity

Formaldehyde

OSHA hazard(s)

Acute toxicity Skin irritation Skin sensitization Flammability respiratory tract irritation Respiratory sensitization Cancer Eye irritation

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Pentane	100 lbs.
Formaldehyde	100 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Acute toxicity (any route or exposure) Respiratory or Skin Sensitization Carcinogenicity

SARA 302 Extremely Hazardous Substance

	Reportable	
Chemical Identity	<u>quantity</u>	Threshold Planning Quantity
Formaldehyde	100 lbs.	500 lbs.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Formaldehyde	500lbs

SARA 313 (TRI Reporting)

Chemical Identity Formaldehyde

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

Chemical Identity	Reportable quantity
Pentane	lbs
Formaldehyde	lbs

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65





WARNING Cancer - www.P65Warnings.ca.gov

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

Chemical Identity Fibrous Glass

Calcium Carbonate (Limestone) Pentane Formaldehyde

US. Massachusetts RTK - Substance List

Chemical Identity

Fibrous Glass Calcium Carbonate (Limestone) Pentane Formaldehyde

US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u> Fibrous Glass Calcium Carbonate (Limestone) Pentane Formaldehyde

US. Rhode Island RTK

Chemical Identity

Fibrous Glass Calcium Carbonate (Limestone) Pentane

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

VOC:

Regulatory VOC (less water and	:	Not available.
exempt solvent)		
VOC Method 310	:	Not available.



Inventory Status:

Australia AICS:

Canada DSL Inventory List:

Canada NDSL Inventory:

Ontario Inventory:

China Inv. Existing Chemical Substances:

Japan (ENCS) List:

Japan ISHL Listing:

Japan Pharmacopoeia Listing:

Korea Existing Chemicals Inv. (KECI):

Mexico INSQ:

New Zealand Inventory of Chemicals:

Philippines PICCS:

Taiwan Chemical Substance Inventory:

US TSCA Inventory:

EINECS, ELINCS or NLP:

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

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

Revision Date:	10/18/2019
Version #:	1.0
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.