

TC-417 & AF90 Fibre

SAFETY DATA SHEET

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Issue or Revision Date: 2018 January 03

SECTION 1

IDENTIFICATION

Product Name: TC-417 thermal and acoustic fibre/AF90 acoustic fibre
Chemical Name/Family Name: Mixture/fibreglass insulation
Use: Component of TC-417 & AF90 thermal and acoustic insulation
CAS Number: None Assigned
Manufacturer/Supplier: ThermoCoustic Industries International Limited
Unit 108, 20119 – 113B Avenue
Maple Ridge, BC V2X 0Z1
604 460 1475
Office Hours: 07:00 – 15:00 Monday to Friday
(Except Canadian Statutory Holidays)
Emergency Telephone: 604-460-1475

SECTION 2

HAZARD IDENTIFICATION

Component Information/Information on Non-Hazardous Components These products are considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). This product is a controlled product under Canadian WHMIS regulations

Emergency Overview May cause temporary irritation to the upper respiratory system, skin and eyes; may cause gastrointestinal irritation if ingested.

Routes of Exposure Inhalation, skin, and eye contact.

Potential Health Effects Eyes. Contact with the eye may result in temporary irritation. Symptoms may include tearing and redness.

Potential Health Effects Skin. Contact with the skin may be temporarily irritating to some individuals.

Potential Health Effects Ingestion. Ingestion of this product is unlikely. Contact a physician if unusual reaction is noted.

Potential Health Effects Inhalation. Inhalation of this product may cause temporary irritation of the upper respiratory tract.

Medical Conditions Aggravated by Exposure Medical conditions that may be aggravated by exposure could include any pre-existing conditions which may be aggravated by mechanical irritants upon inhalation or skin contact.

HMIS Ratings



Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

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SECTION 3

COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	Component:	Percent:
65997-17-13	Fibreglass wool	≥ 99%
64742-54-7	Coating oil	≤ 1%

SECTION 4

FIRST AID MEASURES

First Aid: Eyes Do not rub eyes, as fibers may scratch the eye. Immediately flush eyes with large amounts of water for at least 15 minutes. If irritation persists, seek medical attention.

First Aid: Skin Wash exposed areas with soap and water. If irritation develops or persists, seek medical attention. Skin irritation responds well to mild hydrocortisone cream.

First Aid: Ingestion Ingestion of this product is unlikely. If ingested, do not induce vomiting. If an unusual reaction is noted, contact a physician.

First Aid: Inhalation If the product is inhaled, remove the affected person to fresh air. If irritation persists, seek medical attention.

Component exposure limits:

a) Fibreglass (65997-17-3)

OSHA PEL:	15 mg/m ³ (as total nuisance dust) 5 mg/m ³ (as respirable nuisance dust)
ACGIH TLV:	1 f/cc respirable fibres, length >5 µm, aspect ratio ≥ 3:1 as determined by the membrane filter method at 400 – 450x magnification [4 mm objective], using phase contrast illumination (related to glass wool fibres)
NIOSH REL:	5 mg/m ³ as total fibrous glass, or 3f/cc TWA fibres ≤ 3.5 µm in diameter and ≥ 10 µm in length)
NAIMA:	1 f/cc (HSPP Voluntary Recommended Exposure Limit)

b) Distillates (petroleum), solvent dewaxed and/or hydrotreated heavy paraffinic 64742-54-7

OSHA PEL:	
ACGIH TLV:	500 ppm (as petroleum distillates); 5 mg/m ³ (as oil mist, mineral)
NIOSH REL:	5 mg/m ³ (as oil mist, mineral) 350 ppm (as petroleum distillates); 5 mg/m ³ (as oil mist, mineral)

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SECTION 5

FIRE FIGHTING MEASURES

General Fire Hazards	See Section 9 for Flammability Properties. Product does not support combustion.
Hazardous Combustion Products	A non-hazardous mineral oil dust suppressant additive in the product may emit carbon monoxide as a decomposition product.
Extinguishing Media	Use extinguishing media appropriate for surrounding fire.
Fire Fighting Equipment/Instructions	Standard fire fighting protective equipment appropriate for surrounding fire may be used.
NFPA Ratings:	Health: 0 Fire: 0 Reactivity: 0 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

SECTION 6

ACCIDENTAL RELEASE MEASURES

Containment Procedures	Wear appropriate personal protective equipment.
Clean-Up Procedures	Vacuum dust deposits. Place in an appropriate container for disposal. Avoid generating dust during clean-up. Dispose of in accordance with Federal, State and local regulations in a permitted waste management facility.
Evacuation Procedures	Not expected to be an issue.

SECTION 7

HANDLING AND STORAGE

When handling and/or applying this product:	<ul style="list-style-type: none">• Wear long sleeves and general purpose work gloves (canvas, leather or other);• Wear eye protection such as goggles, safety glasses or face shield;• When necessary, use a NIOSH-approved respirator with an efficiency of N95 or higher;
After handling and/or applying this product:	<ul style="list-style-type: none">• Wash with soap and warm water• Wash work clothes separately and rinse washer after use
Storage Procedures	<ul style="list-style-type: none">• Store these products in a cool, dry, well-ventilated area, under cover.

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SECTION 8

EXPOSURE CONTROL / PERSONAL PROTECTION /

A: Component Exposure Limits Fiber Glass (65997-17-3)

OSHA PEL:	15 mg/m ³ (as total nuisance dust); 5 mg/m ³ (as respirable nuisance dust)
ACGIH TLV:	1 f/cc TWA (respirable fibers, length >5 µm, aspect ratio ≥3:1, as determined by the membrane filter method at 400-450x magnification [4 mm objective], using phasecontrast illumination) (related to glass wool fibers)
NIOSH REL:	5 mg/m ³ as total fibrous glass, or 3 f/cc TWA (fibers ≤3.5 µm in diameter and ≥10 µm in length)
NAIMA:	1 f/cc (HSPP Voluntary Recommended Exposure Limit)

Distillates (petroleum), solvent dewaxed and/or hydrotreated heavy paraffinic 64742-54-7

OSHA PEL:	500 ppm (as petroleum distillates); 5 mg/m ³ (as oil mist, mineral)
ACGIH TLV:	5 mg/m ³ (as oil mist, mineral)
NIOSH REL:	350 mg/m ³ (as petroleum distillate); 5 mg/m ³ (as oil mist, mineral)

Engineering Controls

Avoid spread of fiber glass dust. Provide adequate general and/or local exhaust ventilation to maintain worker exposures below exposure limits.

Personal Protective Equipment: General

Use appropriate personal protective equipment when handling this product.

Personal Protective Equipment: Eyes/Face

Safety glasses with side shields or chemical goggles are recommended to prevent fibers from contacting the eyes.

Personal Protective Equipment: Skin

Wear protective general purpose work gloves (canvas, leather or other type), long pants and long-sleeved shirts to prevent against skin contact.

Personal Protective Equipment: Respiratory

Use appropriate NIOSH-approved respiratory protection, such as a single-use dust/mist respirator (N95) when installing this product. For higher fiber concentrations, a full-face respirators, equipped with high-efficiency particulate air (HEPA) filters may be necessary.

Personal Protective Equipment: Other

Use of a hard hat is recommended in attics to prevent against injury from protruding nails overhead. The use of hearing protection is recommended when working in close proximity to insulation blowing equipment.

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SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White, unbonded glass fibers
Odor:	None
Physical State:	Solid
pH:	Not Applicable
Vapor Density:	Not Applicable
Boiling Point:	Not Applicable
Melting Point:	2200°F/1200°C
Solubility (H2O):	Small
Specific Gravity:	Glass = 2.5
Flash Point:	Not Applicable
Upper Flammability Limit:	Not Applicable
Auto Ignition Temp.:	Not Applicable
Burning Rate:	Not Applicable

SECTION 10

STABILITY AND REACTIVITY

Stability:	Stable under normal conditions
Incompatibility :	Hydrofluoric acid
Possible Hazardous Reactions:	None
Hazardous Decomposition Product:	A non-hazardous mineral oil dust suppressant additive in the product may emit carbon monoxide as a decomposition product.

SECTION 11

TOXICOLOGICAL INFORMATION

Route of Entry:	Inhalation, skin and eye contact
Effect of acute exposure to product:	None known
Effect of acute exposure to skin:	May cause skin irritation.
Effect of acute Inhalation:	May cause temporary irritation of upper respiratory tract
Effect of ingestion:	Unlikely, but may cause gastrointestinal irritation. Contact a physician if unusual reaction is noted
Effect of acute eye contact:	May irritate eye tissue.
Medical conditions aggravated by exposure:	Any pre-existing conditions which may be aggravated by mechanical irritants upon inhalation or skin contact.
Effect of long-term exposure:	Unknown.
Carcinogenicity:	Unknown.
HMIS Ratings:	Health: 1*; Fire: 0; Physical Hazard: 0
Carcinogenicity:	
A. General product Information:	No information available for the product.
B. Component Carcinogenicity:	ACGIH: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans) IARC: Group 3 (Not Classifiable As To Carcinogenicity To Humans) (Monograph 81 [2002])
Fibreglass (65997-17-3):	

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In 2001, following a review of all of the medical and scientific data available, the International Agency on Research on Cancer (IARC), re-classified glass wool insulation fibres from a Group 2B ("Possibly Carcinogenic to Humans") to a Group 3 classification ("Not Classifiable As To Carcinogenicity to Humans"). In issuing this finding, IARC stated that "there is no evidence of increased risks of lung cancer or of mesothelioma from occupational exposures during the manufacture of these materials, and inadequate evidence overall of any cancer risk".

NTP: Reasonably Anticipated To Be A Human Carcinogen (Possible Select Carcinogen)

The NTP classified "Glass Wool, Respirable Size" as "Reasonably Anticipated To Be A Human Carcinogen" in its Seventh Report On Carcinogens (ROC), issued in 1994. Insulation glass wool fibres are under consideration for delisting in the Twelfth Report on Carcinogens, currently under review.

Mutagenicity:	No information available for the product
Teratogenicity:	No information available for the product
Developmental Effects:	No information available for the product

SECTION 12

ECOLOGICAL INFORMATION

A. General Product Information:	No information available for this product.
B. Component Analysis:	No information available for the components of this product. This product is not manufactured with, nor does it contain any Class I Ozone depleting chemicals as defined by EPA in Title VI of the Clean Air Act Amendments of 1990 40 CFR Part 82, Protection of Stratospheric Ozone. This product is not classified as a hazardous air pollutant in Title III Clean Air Act of 1990. Fibreglass is hydrophobic; therefore, no adverse environmental effects would be expected if this product were accidentally released in the water or soil. No harm to fish or wildlife would be caused by this product.

SECTION 13

DISPOSAL CONSIDERATIONS

Disposal Instructions:	Dispose of waste material according to Federal, State, local and Provincial environmental regulations. See Section 7 for Handling Procedures; see Section 8 for Personal Protective Equipment recommendations.
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SECTION 14

TRANSPORTATION INFORMATION

US DOT Information:	This product is not regulated as a hazardous material by the United States (DOT) transportation regulations.
National Motor Freight Class (NMFC):	10330S3, Insulation Material – NOI (Not Otherwise Indexed)
International Transport Regulations:	This product is not regulated as a hazardous material by Canadian (TDG) transportation regulations.

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SECTION 15

REGULATORY INFORMATION

A: General Product Information: Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are either exempt from listing (i.e. polymers, hydrates) or are listed on the confidential inventory as declared by the supplier.

B: CERCLA None of the components of this product are present at an amount reportable to the National Response Center under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA: 40 CFR 302.4) or to state and local Emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA, Title III, Section 304)

Acute Health: Yes; **Chronic Health:** Yes; **Fire:** No; **Pressure:** No; **Reactive:** No

STATE REGULATIONS

A: General Product Information: Other state regulations may apply. Check individual state requirements.

B: Component Analysis – State: The following components appear on one or more of the following state hazardous substances lists.

Component	CAS #	C	A	M	A	M	N	N	J	P	A	RI
Fiber Glass	65997-17-3	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Distillates (petroleum), solvent dewaxed and/or hydrotreated heavy paraffinic	64742-65-0/ 64742-54-7	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

C: California Safe Drinking Water and Toxics Enforcement Act (Proposition 65)

The following statement(s) are provided under the California Safe Drinking Water and Toxics Enforcement Act (Proposition 65)
 WARNING! This product contains a chemical known to the State of California to cause cancer

CANADIAN WHMIS INFORMATION

Component Analysis -WHMIS IDL:

Component:	CAS #:	Minimum Concentration:
fibreglass wool	not available	≥ 99%
Coating oil	not available	≤ 1%

WHMIS Classification: This not a WHMIS controlled product. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations. This MSDS contains all information required by said regulations.

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SECTION 16

OTHER INFORMATION

Other Information:

DISCLAIMER: Supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Material Safety Data Sheet before handling product.

Acronyms/definitions used in this MSDS

ACGIH American Conference of Governmental Industrial Hygienists;
CAS # Chemical Abstracts Services Number;
CERCLA Comprehensive Environmental Response, Compensation and Liability Act;
CFR Code of Federal Regulations;
EPA Environmental Protection Agency;
HMIS Hazardous Material Identification System;
HSPP Health and Safety Partnership Program
IARC International Agency for Research on Cancer;
IDL Ingredient Disclosure List;
LFL Lower Flammable Limit;
mg/m³ Milligrams per cubic metre;
NAIMA North American Insulation Manufacturers Association
NFPA National Fire Protection Association;
NIOSH National Institute for Occupational Safety and Health;
NTP National Toxicology Program;
OSHA Occupational Safety and Health Administration;
ppm Parts per million;
PEL Permissible Exposure Limit;
REL Recommended Exposure Limit;
SARA Superfund Amendments and Reauthorization Act;
RCRA Resource Conservation and Recovery Act;
MSDS Number: CT 10093-1
Title III Emergency Planning and Community Right to Know Act:
Section 302-Extremely Hazardous Substances;
Section 313-Toxic Chemicals;
TLV Threshold Limit Value;
TWA Time Weighted Average;
UFL Upper Flammable Limit;
µm Micron;
WHMIS Workplace Hazardous Material Information System.
SARA Superfund Amendments and Reauthorization Act;
RCRA Resource Conservation and Recovery Act;
MSDS Number: CT 10093-1
Title III Emergency Planning and Community Right to Know Act:
Section 302-Extremely Hazardous Substances;
Section 313-Toxic Chemicals;
TLV Threshold Limit Value;
TWA Time Weighted Average;
UFL Upper Flammable Limit; µm Micron;