



Material Safety Data Sheet

MSDS Number: CT 10093-5
DATE PREPARED: October 27, 2011

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product:
Premium Unbonded Blowing Wools

Trade Names:
InsulSafe®
InsulSafe® SP
OPTIMA®
TrueComfort™
TrueComfort™ - Canada
UltraComfort™

Chemical Name: Mixture
CAS #: None Assigned
Common Name: Fiber Glass Insulation
Product Use: Thermal Insulation
Product Literature Code: 30-24-235

MANUFACTURER INFORMATION:
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2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	Component	Percent
65997-17-3	Fiber Glass	99% maximum
64742-65-0 or 64742-54-7	Distillates (petroleum), solvent dewaxed and/or hydrotreated heavy paraffinic	2.7% maximum

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.

3. HAZARD IDENTIFICATION

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: Health: 1* Fire: 0 Physical Hazard: 0

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

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.

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

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.

7. HANDLING AND STORAGE

Handling Procedures

When handling and/or applying this product:

- 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:

- Wash with soap and warm water
- Wash work clothes separately and rinse washer after use

Storage Procedures

Store these products in a cool, dry, well-ventilated area, under cover.

8. EXPOSURE CONTROL / PERSONAL PROTECTION**A: Component Exposure Limits****Fiber Glass (65997-17-3)**

- OSHA PEL: 15 mg/m³ (as total nuisance dust); 5 mg/m³ (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 phase-contrast illumination) (related to glass wool fibers)
NIOSH REL: 5 mg/m³ 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 (64742-65-0 or 64742-54-7)

- OSHA PEL: 500 ppm (as petroleum distillates); 5 mg/m³ (as oil mist, mineral)
ACGIH TLV: 5 mg/m³ (as oil mist, mineral)
NIOSH REL: 350 mg/m³ (as petroleum distillate); 5 mg/m³ (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**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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White, unbonded glass fibers	Odor:	None
Physical State:	Solid	pH:	Not Applicable
Vapor Pressure:	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	Flash Point Method:	Not Applicable
Lower Flammability Limit:	Not Applicable	Upper Flammability Limit:	Not Applicable
Auto Ignition Temp.:	Not Applicable	Burning Rate:	Not Applicable

10. CHEMICAL STABILITY AND REACTIVITY INFORMATION

Chemical Stability: Stable under normal conditions.

Chemical Stability: Conditions to Avoid - Keep away from incompatible materials.

Incompatibility: Products are incompatible with hydrofluoric acid.

Hazardous Decomposition

A non-hazardous mineral oil dust suppressant additive in the product may emit carbon monoxide as a decomposition product.

Possibility of Hazardous Reactions: Will not occur.

11. TOXICOLOGICAL INFORMATION**Acute Dose Effects****A: General Product Information**

Exposure to these products may cause temporarily irritation to the upper respiratory system, skin and eyes.

Repeated Dose Effects: No information available for the product.

Carcinogenicity

A: General Product Information: No information available for the product.

B: Component Carcinogenicity**Fiber Glass (65997-17-3)**

ACGIH:	A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
IARC:	Group 3 (Not Classifiable As To Carcinogenicity To Humans) (Monograph 81 (2002))
NTP:	Reasonably Anticipated To Be A Human Carcinogen (Possible Select Carcinogen)

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 fibers 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”.

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 fibers 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.

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.

Fiber glass 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.

CertainTeed’s InsulSafe[®]SP, Optima[®], TrueComfort[™] TrueComfort[™] - Canada and UltraComfort[™] fiber glass insulation products meet GREENGUARD Emission Standards. CertainTeed’s certification confirms compliance with GREENGUARD Emission Standards, which are based on criteria used by the State of Washington, the U.S. Environmental Protection Agency (EPA), OSHA and the World Health Organization for total particulate and Volatile Organic Compounds (VOC) emissions, including formaldehyde. Additionally, CertainTeed’s residential fiber glass insulation products meet the following emission criteria: California Section CA1350 material specification for schools and offices; OSHA Purchase Specification; State of Washington; EPA; and Proposed State of California. CertainTeed’s residential fiber glass insulations also meet the EPA Recovered Material Guideline for recycled content.

13. WASTE DISPOSAL CONSIDERATIONS**US EPA Waste Number & Descriptions****A: General Product Information**

Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

B: Component Waste Numbers

No EPA-listed Waste Numbers are being shown for this product's components.

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.

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 Classification (NMFC)

10330S3, Insulation Material – NOI (Not Otherwise Indexed)

International Transportation Regulations

This product is not regulated as a hazardous material by Canadian (TDG) transportation regulations.

15. US FEDERAL REGULATIONS**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 #	CA	MA	MN	NJ	PA	RI
Fiber Glass	65997-17-3	Yes	No	Yes	Yes	Yes	Yes
Distillates (petroleum), solvent dewaxed and/or hydrotreated heavy paraffinic	64742-65-0/ 64742-54-7	No	Yes	Yes	No	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 Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Canadian WHMIS Information

A: General Product Information: WHMIS Class D2A – Very toxic material.

B: Component Analysis - WHMIS IDL

Fibrous glass and mineral oil are listed in the WHMIS IDL.

WHMIS Classification: WHMIS Class D2A – Very toxic material.

Additional Regulatory Information

A: General Product Information: No additional information available.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Fiber Glass	65997-17-3	Yes	Yes	Yes
Distillates (petroleum), solvent dewaxed and/or hydrotreated heavy paraffinic	64742-65-0/ 64742-54-7	Yes	Yes	Yes

16. ADDITIONAL COMMENTS

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/m ³	Milligrams per cubic meter
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

Acronyms/definitions used in this MSDS (continued):

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

MSDS History

MSDS Revision Summary:

<u>Date</u>	<u>MSDS No.</u>	<u>Comments</u>
February 12, 2007	CT 10093-1	Replaces CT 2538-18 & CT 10082-1. Reformatting; updated product information; updated MSDS for InsulSafe® SP.
December 19, 2008	CT 10093-2	Add InsulSafe® and TrueComfort™ to document. Update max distillates percentage. Remove reference to System 5™.
April 21, 2010	CT 10093-3	Added Ultra Comfort to document. Updated CT Logo
December 17, 2010	CT 10093-4	Added TrueComfort – Canada
October 27, 2011	CT 10093-5	Added Product Literature Code

This is the end of MSDS CT 10093-5