Material Safety Data Sheet

CertainTeed

COMMERCIAL INSULATION

DATE PREPARED: AUGUST 1, 2003 MSDS Number: CT 10053-3

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT IDENTIFICATION

Product/Trade Name: CertaPro™ AcoustaTherm™ Batts (Unfaced & Kraft-Faced)
CertaPro™ Partition Batts
CertaPro™ Thermal Kraft Faced Batts
CertaPro™ Thermal Foil Faced Batts
CertaPro™ Thermal FSK-25 Faced Batts
CertaPro™ Thermal Extended Flange Batts (FSK, White & Black PSK Faced)
CertaPro™ Commercial Board (Unfaced, FSK & ASJ Faced)
CertaPro™ AcoustaBoard™ Black
CertaPro™ AcoustaBlanket™ Black

Chemical Name: Mixture

CAS No: None Assigned

Common Name: Fiber Glass Insulation

Product Use: Acoustical & Thermal Insulation

MANUFACTURER INFORMATION

CertainTeed Corporation
750 E. Swedesford Road
P.O. Box 860
Valley Forge, PA USA 19482-0105

Phone: Main Number 610-341-7000
9 am – 5 pm (USA Eastern Standard Time)

EMERGENCY TELEPHONE: CHEMTREC 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Glass, oxide, chemicals
CAS No: 65997-17-3
Common Name: Fibrous glass wool
Percent in Product: 97% maximum by weight
LD_{50}: N/A
LC_{50}: N/A

Exposure Limits:	**OSHA PEL TWA**	**ACGIH TLV TWA**	**NIOSH REL TWA**
	Total Nuisance Dust: 15 mg/m³ Respirable Nuisance Dust: 5 mg/m³ HSPP Voluntary: 1 f/cc	Synthetic Vitreous Fibers - Glass Wool Fibers: 1 f/cc	Total Glass Dust: 5 mg/m³ Respirable Fibers: 3 f/cc

See Section 16 for definitions of respirable fibers.

2. COMPOSITION/INFORMATION ON INGREDIENTS (Continued)

Chemical Name:	Urea, polymer with formaldehyde and phenol (cured)		
CAS No:	25104-55-6		
Common Name:	Phenol formaldehyde urea polymer		
Percent in Product:	3-11% by weight		
LD_{50}:	N/A		
LC_{50}:	N/A		
Exposure Limits:	**OSHA PEL TWA**	**ACGIH TLV TWA**	**OTHER**
	None	None	None

Chemical Name:	**For CertaPro™ AcoustaTherm™ Kraft Faced Batts adhesive contains:** Asphalt		
CAS No:	8052-42-4		
Common Name:	Petroleum asphalt		
Percent in Product:	0-17% by weight		
LD_{50}:	N/A		
LC_{50}:	N/A		
Exposure Limits:	**OSHA PEL TWA**	**ACGIH TLV TWA**	**OTHER**
	None	5 mg/m^3	None

Chemical Name:	**For CertaPro™ Commercial Board Insulation FSK & ASJ, adhesive contains:** Acetic acid vinyl ester polymer		
CAS No:	9003-20-7		
Common Name:	Polyvinyl acetate, Acetic acid ethenyl ester homopolymer		
Percent in Product:	<11% by weight maximum		
LD_{50}:	N/A		
LC_{50}:	N/A		
Exposure Limits:	**OSHA PEL TWA**	**ACGIH TLV TWA**	**OTHER**
	None	None	None

Chemical Name:	**For CertaPro™ Commercial Board Insulation FSK and ASJ, adhesive contains:** Acetic acid ethenyl ester polymer with ethene		
CAS No:	24937-78-8		
Common Name:	Ethylene vinyl acetate co-polymer		
Percent in Product:	<7%		
LD_{50}:	N/A		
LC_{50}:	N/A		
Exposure Limits:	**OSHA PEL TWA**	**ACGIH TLV TWA**	**OTHER**
	None	None	None

Chemical Name:	**CertaPro™ AcoustaBoard™ Black and CertaPro™ AcoustaBlanket™ Black contain:** Glass, oxide chemicals (textile)		
CAS No:	65997-17-3		
Common Name:	Textile fiber glass: Continuous filament glass fibers		
Percent in Product:	8% by weight-maximum		
LD_{50}:	N/A		
LC_{50}:	N/A		
Exposure Limits:	**OSHA PEL TWA**	**ACGIH TLV TWA**	**NIOSH REL TWA**
	Total Nuisance Dust: 15 mg/m^3 Respirable Nuisance Dust: 5 mg/m^3	Synthetic Vitreous Fibers: 1f/cc (continuous filament glass fibers)	Total Glass Dust: 5 mg/m^3 Respirable Fibers: 3 f/cc

2. COMPOSITION/INFORMATION ON INGREDIENTS (Continued)

Chemical Name:	**ASJ faced products contain:** Polyester fiber		
CAS No:	25038-59-9		
Common Name:			
Percent in Product:	5% by weight-maximum		
LD_{50}:	N/A		
LC_{50}:	N/A		
Exposure Limits:	**OSHA PEL**	**ACGIH TLV TWA**	**OTHER**
(If yes, fill in)	None	None	None

Chemical Name:	**CertaPro™ AcoustaBlanket™ Black only contains:** Acrylic-based polymer		
CAS No:	Proprietary		
Common Name:			
Percent in Product:	<5% by weight		
LD_{50}:	N/A		
LC_{50}:	N/A		
Exposure Limits:	**OSHA PEL TWA**	**ACGIH TLV TWA**	**NIOSH REL TWA**
	None	None	None

Chemical Name:	**Coated/Faced products contain:** Antimony trioxide		
CAS No:	1309-64-4		
Common Name:			
Percent in Product:	3% by weight-maximum		
LD_{50}:	N/A		
LC_{50}:	N/A		
Exposure Limits:	**OSHA PEL TWA**	**ACGIH TLV TWA**	**NIOSH REL TWA**
	0.5 mg/m^3	0.5 mg/m^3	0.5 mg/m^3

Chemical Name:	**Coated products contain:** Aluminum Oxide		
CAS No:	1344-28-1		
Common Name:			
Percent in Product:	<1.5% by weight		
LD_{50}:	N/A		
LC_{50}:	N/A		
Exposure Limits:	**OSHA PEL TWA**	**ACGIH TLV TWA**	**NIOSH REL TWA**
	Total Nuisance Dust: 15 mg/m^3 Respirable Nuisance Dust: 5 mg/m^3	Total Nuisance Dust: 10 mg/m^3	Fume: 1.5 mg/m^3

Chemical Name:	**Coated products contain:** Kaolin		
CAS No:	1332-58-7		
Common Name:	Clay		
Percent in Product:	1.5% by weight-maximum		
LD_{50}:	N/A		
LC_{50}:	N/A		
Exposure Limits:	**OSHA PEL TWA**	**ACGIH TLV TWA**	**NIOSH REL TWA**
	Total Nuisance Dust: 15 mg/m^3 Respirable Nuisance Dust: 5 mg/m^3	Total Nuisance Dust: 2 mg/m^3	Total Dust: 10 mg/m^3 Respirable Dust: 5 mg/m^3

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

	Health	Fire	Reactivity
NFPA Rating:	0	0	0
HMIS Rating:	1*	0	0

(see section 16 for acronyms)

Degree of Hazard
0 - Minimal (Insignificant)
1 - Slight
2 - Moderate
3 - Serious (High)
4 - Severe (Extreme)
* - Chronic Health Effect(s)

POTENTIAL HEALTH EFFECTS

Target Organs: Upper respiratory system, lungs, skin and eyes.

Primary Routes of Entry: Inhalation, skin and eye contact.

Acute Inhalation: Temporary upper respiratory irritation.

Chronic Inhalation: None known.

Acute Skin Contact and Sensitization: Temporary skin irritation seen in certain individuals.

Chronic Skin Contact: None known.

Skin Absorption: None.

Acute Eye Contact: Temporary eye irritation.

Chronic Eye Contact: None known.

Acute Ingestion: Unlikely. Contact physician if unusual reaction is noted.

Chronic Ingestion: None known.

Medical Conditions Which May Be Aggravated: Pre-existing conditions which may be aggravated by mechanical irritants upon inhalation or skin contact.

Carcinogenicity:

Ingredient: Fiber glass wool, Glass wool (respirable size)
IARC: Group 3, not classifiable as to carcinogenicity to humans.
NTP: Listed as 2, reasonably anticipated to be a carcinogen, sufficient evidence from studies in experimental animals
OSHA: Not Listed

Ingredient: Antimony Trioxide
IARC: Possibly carcinogenic to humans – 2B
NTP: Not Listed
OSHA: Not Listed

Ingredient: Fibrous glass textile or continuous strand
IARC: Group 3, not classifiable as to carcinogenicity to humans.
NTP: Not Listed
OSHA: Not Listed

Ingredient: Acetic Acid ethenyl ester homopolymer
IARC: Group 3, not classifiable as to carcinogenicity to humans.
NTP: Not Listed
OSHA: Not Listed

Mutagenicity: None.

Teratogenicity: None.

Reproductive Toxicity: None.

Toxicological Synergistic Products: None.

Other Potential Health Risks:

WARNING: To avoid danger of suffocation, do not place the plastic bag within reach of babies and children.

4. FIRST AID MEASURES

Inhalation: Remove from exposure. Get medical help if irritation persists.

Eye Contact: Do not rub or scratch your eyes. Flush well with running water for at least 15 minutes. Get medical help if irritation persists.

Skin Contact: Cleanse with soap and warm water. Get medical help if irritation persists.

Ingestion: Unlikely. Consult physician if unusual reaction is noted.

Fires: Remove to fresh air. Administer oxygen and get medical help.

Information for Medical Practitioners: Skin irritation responds well to mild hydrocortisone cream.

5. FIRE FIGHTING MEASURES

Flash Point (˚F) and Method: Does not support combustion.

Flammable Limits: **LEL:** N/A **UEL:** N/A

Autoignition Temperature: N/A

Extinguishing Media: Use that which is applicable to surrounding fire.

Special Fire Fighting Procedures: Treat as residential building materials.

Conditions of Flammability: Facings on these products may burn. Care should be taken not to leave facing exposed when working close to an open flame.

Unusual Fire and Explosion Hazard, Decomposition Products: These products contain a cured phenolic-based binder and various facings which contain retardant systems to reduce the possibility of fire. If burned, the materials could release toxic fumes as described below. The binder and kraft facings in a fire situation may emit toxic fumes and smoke containing carbon dioxide, carbon monoxide, sulfur dioxide and other potentially toxic volatile organic compounds. The FSK facings may decompose and release carbon monoxide, carbon dioxide, hydrogen chloride, chlorine gas, antimony and traces of arsenic, oxides of arsenic and oxides of nitrogen. The ASJ facing may decompose and release carbon monoxide, carbon dioxide, hydrogen chloride, chlorine gas, antimony and traces of arsenic, oxides of arsenic, bromine gas and hydrogen bromide. The airstream facings may release carbon monoxide, carbon dioxide, antimony, hydrogen bromide, formaldehyde and trace hydrogen cyanide.

6. ACCIDENTAL RELEASE MEASURES

Spills/Leaks: Vacuum dust deposits. Do not use compressed air for clean-up.

Accidental or Unplanned Releases: Clean area with vacuum or wet methods.

7. HANDLING AND STORAGE

Handling: When handling and/or applying this insulation:

- Wear long sleeves, gloves and cap.
- Wear eye protection (goggles, safety glasses or face mask).
- Use a NIOSH-certified disposable or reusable particulate respirator with an efficiency of N95 or higher, such as a 3M Brand #8210, #8511, #8233 or equivalent.

After handling and/or applying this insulation:

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

Storage: Store under cover to protect product.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Personal Protective Equipment:

Respirators: Wear NIOSH-certified respirators when handling and applying fiber glass insulation products in accordance with the following NIOSH-based exposure guidelines:

Exposure	Respirator (or equivalent)
Less than 10 times exposure guideline	1/2 mask N95 or higher, such as 3M Brand #8210, #8511 or #8233
Less than 50 times exposure guideline	Full face N100 or higher, such as 3M Brand 6000 or 7000 series

Work Practices and Engineering Controls: Avoid spread of fiber glass dust. Provide general and/or local exhaust ventilation to control airborne dust levels below exposure limits.

Product Package Label:
WARNING

Contains fiber glass wool which, under the National Toxicology Program, is a possible cause of cancer if inhaled.

This product contains a chemical known to the State of California to cause cancer.

This fiber glass wool may cause temporary skin, eye, throat and upper respiratory irritation. Product contains cured binder with urea, formaldehyde and phenol.

In 2001, the International Agency for Research on Cancer (IARC) reclassified glass wool as Group 3, not classifiable as to carcinogenicity to humans.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Boiling Point (˚F): N/A
Melting Point (˚F): 2200˚
Softening Point (˚F): 1300˚
Odor: Faint resin odor
Odor Threshold: None
Color: Yellow
pH: N/A
Vapor Density (Air=1): N/A
Specific Gravity (H_2O=1): Glass=2.5
% Volatile by Volume: N/A
Vapor Pressure: N/A
Evaporative Rate (ethyl ether=1): N/A
% Solubility (H_2O): Small
Freezing Point: None
Coefficient of Water to Oil Distribution: None
Appearance: Fibers assembled into blankets or loose fill. The blankets may be faced with kraft, aluminum foil or other facings.

10. REACTIVITY

Stability: Material is stable.
Corrosivity: None
Incompatibility: Hydrofluoric Acid
Reactivity: None
Reactivity with water: None
Explosion: Product is not sensitive to mechanical impact or static discharge.

11. TOXICOLOGICAL INFORMATION

Following a thorough review of all of the medical-scientific data available at a meeting in October 2001, the IARC panel lowered the classification for glass wool insulation fibers from a Group 2B classification ("possibly carcinogenic to humans") to a Group 3 classification ("not classifiable as to carcinogenicity to humans"). IARC said 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."

12. ECOLOGICAL INFORMATION

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.

Binder-coated 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.

13. WASTE DISPOSAL CONSIDERATIONS

Scrap material should be disposed of in a sanitary landfill in accordance with federal, state and local regulations. Waste is not hazardous as defined by RCRA (40CFR Part 261).

14. TRANSPORTATION INFORMATION

National Motor Freight Classification (NMFC): 103300S3, Insulation Material – NOI (Not Otherwise Indexed)

15. REGULATORY INFORMATION

As this product is considered a mixture, each component is listed below identifying its status on specific regulatory lists.

CHEMICAL NAME	SARA Title III Section 313	SARA Title III Section 302	California Proposition 65	Canada DSL	Canada NDSL	Korea KECI	Europe EINECS	Japan MITI	Philippines PICCS	Australia AICS	USA TSCA
Fiber glass wool & textile 65997-17-3	—	—	✓†	—	✓	✓	✓	✓	✓	✓	✓
Phenol formaldehyde urea polymer 25104-55-6	—	—	—	✓	—	✓	—	✓	—	✓	✓
Petroleum asphalt 8052-42-4	—	—	—	✓	—	✓	✓	—	—	✓	✓
Polyvinyl acetate 9003-20-7	—	—	—	✓	—	✓	—	✓	—	✓	✓
Ethylene vinyl acetate co-polymer 24937-78-8	—	—	—	✓	—	✓	—	✓	—	✓	✓
Antimony trioxide 1309-64-4	—	—	✓	✓	—	✓	✓	✓	✓	✓	✓
Polyester fiber 25038-59-9	—	—	—	✓	—	✓	—	✓	—	—	✓
Kaolin 1332-58-7	—	—	—	—	✓	✓	—	✓	✓	✓	✓
Aluminum Oxide 1344-28-1	—	—	—	✓	—	✓	✓	✓	✓	✓	✓

† listed as glass wool fibers (airborne particulates of respirable size)

16. ADDITIONAL COMMENTS

Acronyms/definitions used in this MSDS:

ACGIH:	American Conference of Governmental Industrial Hygienists
ASJ:	All Service Jacket
CAS No:	Chemical Abstracts Service Number
CFR:	Code of Federal Regulations
EPA:	Environmental Protection Agency
f/cc:	Fibers per cubic centimeter
FSK:	Foil Scrim Kraft
HMIS:	Hazardous Material Identification System
HSPP:	Health & Safety Partnership Program between OSHA and the North American Insulation Manufacturer's Association (NAIMA)
IARC:	International Agency for Research on Cancer
LC_{50}:	The air concentration of a substance, when administered over a specified time period in an animal assay, is expected to cause the death of 50% of a defined animal population.
LD_{50}:	The single dose of a substance that, when administered by a defined route in an animal assay, is expected to cause the death of 50% of a defined animal population.
LEL:	Lower Explosive Limit
mg/m^3:	Milligrams per cubic meter
N/A:	Not Applicable
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NMFC:	National Motor Freight Classification
NOI:	Not Otherwise Indexed
NTP:	National Toxicology Program
N95:	A particulate filter respirator certified for at least 95% filter efficiency. For use in atmospheres containing solid or particulate hazards that do not contain oil.
N100:	A particulate filter respirator certified for 99.97% filter efficiency. For use in atmospheres containing solid or particulate hazards that do not contain oil.
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit
PSK:	Polypropylene Scrim Kraft
RCRA:	Resource Conservation and Recovery Act
REL:	Recommended Exposure Limit
SARA:	Superfund Amendments and Reauthorization Act
Title III:	Emergency Planning and Community Right to Know Act Section 302 - Extremely Hazardous Substances Section 313 - Toxic Chemicals
TLV:	Threshold Limit Value
TSCA:	Toxic Substances Control Act (USA)
TWA:	Time Weighted Average
UEL:	Upper Explosive Limit
WMP:	White Metallized Polypropylene

Australia AICS:	Australian Inventory of Chemical Substances
California Proposition 65:	California Title 22, Division 2, Chapter 3 Safe Drinking Water and Toxic Enforcement Act of 1986
Canada DSL:	Canadian Domestic Substance List
Canada NDSL:	Canadian Non-domestic Substance List
Europe EINECS:	European Inventory of Existing Commercial Chemical Substances
Japan MITI:	Ministry of International Trade and Industry
Korea KECI:	Korean Existing Chemicals Inventory
Philippines PICCS:	Philippine Inventory of Chemicals and Chemical Substances

16. ADDITIONAL COMMENTS (Continued)

Respirable Nuisance Dust:	The respirable fraction of suspended airborne particulates
Respirable Fibers (ACGIH):	Suspended airborne particulates with lengths greater than 5 microns and a 3:1 length to width aspect ratio. Results given as f/cc.
Respirable Fibers (HSPP):	Suspended airborne particulates with diameters of 3 micrometers or less, lengths of 5 micrometers or more and 5:1 length-to-width aspect ratio (NIOSH 7400 method, B rules). Results given as f/cc.
Respirable Fibers (NIOSH):	Suspended airborne particulates with diameters of 3.5 microns or less and lengths of 10 microns or more. Results given as f/cc.
Total Nuisance Dust:	Suspended airborne particles of "nuisance" dusts including those of non-respirable size
Total Glass Dust:	Suspended airborne particles of dust composed of glass only, including those of non-respirable size

MSDS History

MSDS Revision Summary:

Date	MSDS No.	Comments
9/16/1999	CT 10053-1	New MSDS
10/26/2001	CT 10053-2	Revised MSDS
8/01/2003	CT 10053-3	Revised MSDS

This is the end of CertainTeed MSDS CT 10053-3