Material Safety Data Sheet

CertainTeed **H**

MECHANICAL/OEM (Category 2-Textile)

DATE PREPARED: JUNE 1, 2004 MSDS Number: CT 3702-10

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT IDENTIFICATION

CertaSound™Acoustical Blanket ToughGard® Turning Vane ULTRALITE® Duct Liner Industrial Resilient Blanket ULTRALITE® Insulation Muffler Pac ToughGard® Duct Liner **ULTRA*LINER®**

ToughGard®2 Textile Duct Liner

Chemical Name: Mixture CAS No: None Assigned Fiber Glass Insulation **Common Name:**

Product Use: Acoustical and Thermal Insulation

MANUFACTURER INFORMATION

CertainTeed Corporation P.O. Box 860

Valley Forge, PA USA 19482-0105

EMERGENCY TELEPHONE: CHEMTREC (800) 424-9300

9 am - 5 pm (Eastern Time - USA)

(610) 341-7000

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Glass, oxide chemicals (textile)

CAS No: 65997-17-3

Common Name: Fiber glass textile, continuous filament glass fibers

Percent in Product: 30 - 100% by weight

LD₅₀: N/A LC₅₀: N/A

Exposure Limits: OSHA PEL TWA ACGIH TLV TWA NIOSH REL

> Total Nuisance Dust: Synthetic Vitreous Fibers: Total Glass Dust: 5 mg/m³ 15 mg/m³ 1f/cc (continuous Respirable Fibers: 3 f/cc

Respirable Nuisance Dust: filament glass fibers)

5 mg/m³

ToughGard®2 Textile Duct Liner Only **Chemical Name:**

Glass, oxide, chemicals (wool)

CAS No: 65997-17-3 **Common Name:** Fibrous glass wool **Percent in Product:** 30% by weight-maximum

LD₅₀: N/A LC₅₀: N/A

Exposure Limits: OSHA PEL TWA ACGIH TLV TWA NIOSH REL

> Total Nuisance Dust: Synthetic Vitreous Total Glass Dust: 5 mg/m³ 15 mg/m³ Fibers - Glass Wool Respirable Fibers: 3 f/cc

Fibers: 1 f/cc Respirable Nuisance

Dust: 5 mg/m3

HSPP Voluntary: 1 f/cc

See Section 16 for definitions of respirable fibers.

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2. COMPOSITION/INFORMATION ON INGREDIENTS (Continued)

Chemical Name: Phenol, polymer with formaldehyde, reaction products with

hexamethylenetetramine (cured)

CAS No: 68585-23-9

Common Name: Phenol formaldehyde polymer hexamethylenetetramine cross-linked

Percent in Product: 10 - 30% by weight

LD₅₀: N/A LC₅₀: N/A

Exposure Limits: <u>OSHA PEL TWA</u> <u>ACGIH TLV TWA</u> <u>OTHER</u>

None None None

Chemical Name: <u>ULTRALITE Only</u>

Urea polymer of phenol and formaldehyde (cured)

CAS No: 25104-55-6
Common Name: Cured Binder
Percent in Product: 15 – 20% by weight

LD₅₀: N/A LC₅₀: N/A

Exposure Limits: OSHA PEL TWA ACGIH TLV TWA OTHER

None None None

Chemical Name: <u>Turning Vane Only</u>

Nylon

CAS No: 25038-54-4
Common Name: Nylon 6
Percent in Product: 19.4%
LD₅₀: N/A
LC₅₀: N/A

Exposure Limits: OSHA PEL TWA ACGIH TLV TWA NIOSH REL

None None None

Chemical Name: Hydrated Alumina

CAS No: 1344-28-1

Common Name: Hydrated Alumina **Percent in Product:** 0.5 – 6% by weight

LD₅₀: N/A LC₅₀: N/A

Exposure Limits: <u>OSHA PEL TWA</u> <u>ACGIH TLV TWA</u> <u>OTHER</u>

Total Nuisance Dust: 10 mg/m³ None

 15 mg/m^3 (as Al)

Respirable Nuisance Dust:

 5 mg/m^3

Chemical Name: <u>Coated Products Only</u>

Kaolin

CAS No: 1332-58-7 Common Name: Clay

Percent in Product: 2.2% maximum by weight

LD₅₀: N/A LC₅₀: N/A

Exposure Limits: OSHA PEL TWA ACGIH TLV TWA NIOSH REL

Total Dust: 15 mg/m³ Respirable Dust: Total Dust: 10 mg/m³ Respirable Dust: 5 mg/m³ Respirable Dust: 5 mg/m³ Respirable Dust: 5 mg/m³

Chemical Name: Coated Products Only

Antimony Oxide

CAS No: 1309-64-4

Common Name: Antimony Trioxide **Percent in Product:** 0.9% maximum by weight

3250 mg/kg (Intraperitoneal – Rat) LD₅₀:

LC₅₀: N/A

Exposure Limits: OSHA PEL TWA **ACGIH TLV TWA OTHER**

None 0.5 mg/m3 None

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW Degree of Hazard Health Fire Reactivity 0 - Minimal (Insignificant) **NFPA Rating:** 0 0 0 1 - Slight **HMIS Rating:** 1 0 0 2 - Moderate 3 - Serious (High) 4 - Severe (Extreme) * - Chronic Health Effect(s)

(see section 16 for acronyms)

POTENTIAL HEALTH EFFECTS

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, Glasswool (respirable size)

NTP: Listed as 2, reasonably anticipated to be a carcinogen, sufficient evidence from studies in experimental animals **IARC:** Group 3, not classifiable as to carcinogenicity to humans.

OSHA: Not Listed

Ingredient: Fiber glass textile. **Ingredient:** Antimony Oxide.

NTP: Not Listed. NTP: Not Listed.

IARC: Possibly Carcinogenic to Humans – 2B. **IARC:** Not Classifiable – Group 3.

OSHA: Not Listed. **OSHA:** Not Listed.

Mutagenicity: None. Teratogenicity: None.

Reproductive Toxicity: None.

Toxicological Synergistic Products: None.

4. FIRST AID MEASURES

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

Eye Contact: Flush well with running water for at least 15 minutes. Get medical help if irritation persists.

Skin Contact: Cleanse with soap and 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. The binder in a fire situation may emit toxic fumes and smoke containing carbon dioxide, carbon monoxide and molecular fragments of hydrocarbon particulates, carbon-hydrogen-nitrogen and nitrogen-oxygen compounds and ammonia. Coated products may also emit hydrogen chloride.

6. ACCIDENTAL RELEASE MEASURES

Spills/Leaks: Vacuum dust deposits.

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 #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 #8210,

#8511 or #8233

Less than 50 times exposure guideline Full face N100 or higher, such as

3M 6000 or 7000 series

Product Package Label:

CAUTION: This processed continuous filament fiber glass insulation product may cause skin, eye and respiratory irritation.

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 #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.

For additional product safety information, including dust respirator data and Material Safety Data Sheets (MSDS), call (610) 341-7000.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid Vapor Density (Air=1): N/A

Softening Point (°F): Approx. 1550° Vapor Pressure: N/A

Odor: Faint resin odor Evaporative Rate (ethyl ether=1): N/A

Odor Threshold: None% Solubility (H2O): SmallColor: Yellow, Brown, or AmberFreezing Point: None

pH: N/A Coefficient of Water to Oil Distribution: N/A

Appearance: Fibers assembled into blankets or boards. The products may be plain, coated, composite-faced or

foil skrim kraft (FSK) faced.

10. REACTIVITY

Stability: Chemically stable Corrosivity: Not corrosive

Incompatibility: Hydrofluoric Acid

Reactivity: Not reactive

Reactivity with water: Not reactive

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."

IARC also determined that the data from both human and animal studies was inadequate to classify continuous filament glass fibers (Not Classifiable – Group 3), such as used in these products and other textile fiber glass products, as carcinogenic to humans.

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 material is not considered hazardous as defined by RCRA (40 CFR 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.

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Fiber glass textile and wool 65997-17-3			✓ †	1		1	1	1	1	1	1	
Phenol formaldehyde reaction products with hexamethylenetetramine 68585-23-9	_	_	_	_	1	_	_	1	_	1	1	
Kaolin 1332-58-7					1	1			1	1	1	
Antimony Oxide 1309-64-4			✓	✓		✓	✓	✓	✓	✓	✓	
Nylon 25038-54-4				1			_	1			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

CAS No: Chemical Abstracts Service Number EPA: Environmental Protection Agency f/cc: Fibers per cubic centimeter

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

LC₅₀: 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.

LD₅₀: 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/m³: 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.

16. ADDITIONAL COMMENTS (Continued)

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

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

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

Respirable Nuisance The respirable fraction of suspended airborne particulates

Dust:

Respirable Fibers Suspended airborne particulates with lengths greater than 5 microns

(ACGIH): and a 3:1 length-to-width aspect ratio. Results given as f/cc.

Respirable Fibers Suspended airborne particulates with diameters of 3 micrometers or less,

(HSPP): 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 Suspended airborne particulates with diameters of 3.5 microns or less

(NIOSH): 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

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