



MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

Product Name: UPA Glasswool Insulation

Use: UPA Glasswool Insulation Batts are made of long and resilient glass fibre, bonded with a thermal setting resin. The UPA Glasswool Batts are a superior thermal insulation with excellent sound absorption properties. Manufactured by the advanced and unique rotary flame attenuation process, it accomplishes both high performance and economy with ease of installation in either wood or steel stud partition and in floor / ceiling system applications.

STATEMENT OF HAZARDOUS NATURE:

This product has been assessed by United Plasterworks Australia Pty.Ltd. according to the criteria of the National Occupational and Safety Commission (NOHSC): 1008(1999) and NOHSC: 10005(1999). As a result of this assessment this product is classified as hazardous according to the NOHSC criteria.

Product Name: Fiber Glass Insulation
CAS#: Mixture/None Assigned
Generic Name: Fiber Glass Wool Product
Formula: Mixture
Chemical Name: Mixture
Hazard Label: FG-01

IMPORTANT NOTICE:

This Material Safety Data Sheet (MSDS) is issued by the Supplier in accordance with National Occupational Health and Safety Commission (NOHSC) guidelines. As such, the information in it must not be altered, deleted or added to. The supplier will issue a new MSDS when there is a change in product specifications and/or NOHSC guidelines/regulations. The supplier will not accept any responsibility for any changes made to its MSDS by any other person or organisation.

Date of preparation of MSDS Sheet: 01/05/2007

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COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	COMPONENT	PERCENT
65997-17-3	Fiber glass wool	85- 98
25104-55-6	Urea extended phenol-formaldehyde binder (cured)*	0-15
Not Available	Foil/kraft, kraft, FSK, polyethylene, PSK, and various metal building facings	0-6.7
1309-64-4	Antimony trioxide (may be in facing or adhesive)**	>0.1

COMPONENT RELATED REGULATORY INFORMATION:

This product may be regulated, have exposure limits or other information identified as the following: Glass wool fiber, Antimony (7440-36-0).

ADDITIONAL COMPONENT INFORMATION:

* Binder may be either of these. Yellow product has urea phenol formaldehyde binder; white product has acrylic binder and is formaldehyde-free.

** Note: Antimony trioxide (fire retardant) may be present in the facings and/or adhesives. Occupational exposure to airborne antimony trioxide is not expected to occur due to product form(s) and intended use(s). Exposure limit is given for reference only.

EMERGENCY OVERVIEW:

APPEARANCE AND ODOR: White or yellow fibrous glass board, batt, blanket, or loose-fill insulation with or without kraft, FSK, or other facings. No significant odor.

Dust from fiber glass wool has been designated by US NTP as a possible cause of cancer by inhalation. However, the World Health Organization (IARC) recently removed fiber glass wool from its list of possible causes of cancer.

Inhalation of excessive amounts of dust from the product may cause temporary upper respiratory irritation and/or congestion-remove individual to fresh air.

POTENTIAL HEALTH EFFECTS:

Summary: Breathing dust from this product may cause a scratchy throat, congestion, and slight coughing. Getting dust or fibers on the skin, or in the eyes may cause itching, rash, or redness. Additional health and safety information is provided in Section 11 of this material safety data sheet.

Inhalation: Irritation of the upper respiratory tract (scratchy throat), coughing, and congestion may occur in extreme exposures.

Skin: Temporary irritation (itching) or redness may occur.

Ingestion: This product is not intended to be ingested (eaten). If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.

Eyes: Temporary irritation (itching) or redness may occur.

Target Organs: Nose (nasal passages), throat, lungs, skin, eyes.

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Primary Routes of Entry (Exposure): Inhalation (breathing dust), skin and eye contact.

Medical Condition Aggravated by Exposure: Pre-existing chronic respiratory, skin or eye diseases or conditions,

FIRST AIDS MEASURES:

Inhalation: Remove to fresh air. Drink water to clear throat, and blow nose to remove dust.

Skin: Wash gently with soap and warm water to remove dust. Wash hands before eating or using the restroom.

Ingestion: Product is not intended to be ingested or eaten. If this product is ingested, irritation of the gastrointestinal (GI) tract may occur, and should be treated symptomatically. Rinse mouth with water to remove fibers, and drink plenty of water to help reduce the irritation. No chronic effects are expected following ingestion.

Eyes: Do not rub or scratch your eyes. Dust particles may cause the eye to be scratched. Flush eyes with large amount of water for 5-15 minutes. If irritation persists, contact a medical professional.

Note to Physician: This product is a mechanical irritant and is not expected to produce any chronic health effects from acute exposures. Treatment should be directed toward removing the source of irritation with symptomatic treatment as necessary.

FIRE FIGHTING MEASURES:

Flash Point: Not applicable
Upper Flammable Limit (UFL): Not applicable
Auto Ignition: Not determined
Rate of Burning: Not determined

Method Used: Not applicable
Lower Flammable Limit (LFL): Not applicable
Flammability Classification: Not determined

General Fire Hazards

Carbon dioxide (CO₂), water, water fog, dry chemical.

Fire Fighting Equipment/Instructions

No special procedures are expected to be necessary for this product. Normal fire fighting procedures should be followed to avoid inhalation of smoke and gases.

ACCIDENTAL RELEASE MEASURES:

Containment Procedures: Pick up large pieces. Vacuum dusts. If sweeping is necessary, use a dust suppressant such as water. Do not dry sweep dust accumulation or use compressed air for clean-up. These procedures will help to minimize potential exposures.

Clean-Up Procedures: Avoid the generation of dust during clean-up.

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HANDLING AND STORAGE:

- Handling:** Use protective equipment as described in Section 8 of this material safety data sheet when handling uncontained material.
- Procedures**
- Storage:** Warehouse storage should be in accordance with package directions, if any.
- Procedures** Material should be kept dry and protected from the elements.

EXPOSURE CONTROLS/PERSONAL PROTECTION:

Exposure Guidelines

- A) General Product:** Glass wool fiber, OSHA voluntary Health and Safety Partnership (HSPP): 1 f/cc
Procedures TWA for fibers longer than 5µm with a diameter less than 3µm.
- B) Component:** ACGIH: 1 f/cc TWA (respirable fibers: length > 5µm, aspect ratio equal to or greater than 3:1). (related to Glass wool fibers).
- Exposure Limits**
- Fiber glass wool
(65997-17-3)

Antimony trioxide (may be in facing or adhesive) ** (1309-64-4)

- ACGIH: 0.5 mg/m³ TWA (related to Antimony)
OSHA: 0.5mg/m³ TWA (related to Antimony)

PERSONAL PROTECTIVE EQUIPMENT:

- Eyes/Face:** Safety glasses with sideshields are recommended to keep dust out of the eyes.
- Skin:** Leather or cotton gloves should worn to prevent skin contact and irritation. Barrier creams may also be used to reduce skin contact and irritation caused by fiber glass.
- Respiratory:** A respirator should be used if ventilation is unavailable or is inadequate for keeping dust and fiber levels below the applicable exposure limits. In those cases, use a NIOSH-certified disposable or reusable particulate respirator with an efficiency rating of N95 or higher (under 42 CFR 84) when working with this product. For exposures up to five times the established exposure limits use a half-mask respirator (e.g. MSA's DM-11, Racal's Delta N95, 3M's 8210), rated N95 or higher. Operations such as sawing, blowing, tear out and spraying may generate airborne fiber concentrations requiring a higher level of respiratory protection. For exposures up to 50 times the established exposure limits use a full-face respirator, rated N99 or higher.
- Ventilation:** In fixed manufacturing settings, local exhaust ventilation should be provided at areas of cutting to remove airborne dust and fibers. General dilution ventilation should be provided as necessary to keep airborne dust and fibers below the applicable exposure limits and guidelines. The need for ventilation systems should be evaluated by a professional industrial hygienist, while the design of specific ventilation systems should be conducted by a professional engineer.



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General: Wear a cap, a loose-fitting, long-sleeved shirt and long pants to protect skin from irritation. Exposed skin areas should be washed with soap and warm water after handling or working with fiber glass. Clothing should be washed separately from other clothes and the washer should be rinsed thoroughly (run empty for a complete wash circle). This will reduce the chances of fiber glass being transferred to other clothing.

PHYSICAL & CHEMICAL PROPERTIES:

Appearance: White or yellow fibrous glass board, batt, blanket or loose-fill insulation with or without kraft, FSK or other facings.

Physical State: Solid

Vapor Pressure: Not applicable

Boiling Point: Not applicable

Solubility (H₂O): Nil

Freezing Point: Not applicable

Odour: No significant odour

pH: Not applicable

Vapor Density: No applicable

Melting Point: >704°C/1300°F

Specific Gravity: Variable

Evaporation Rate: No applicable

CHEMICAL STABILITY & REACTIVITY INFORMATION:

Chemical Stability: This is a stable material. This product is not reactive.

Hazardous: The decomposition products from this material are those that would be expected
Decomposition from any organic (carbon containing) material and are mainly derived from pyrolysis or burning of the resin. These decomposition products may include carbon monoxide, carbon dioxide, carbon particles and traces of hydrogen cyanide.

Hazard: Will not occur.
Polymerization

TOXICOLOGICAL INFORMATION:

Acute Toxicity

A: General Product Information

Dust from this product is a mechanical irritant, which means that it may cause temporary irritation or scratchiness of the throat and/or itching of the eyes and skin.

B: Component Analysis - LD50/LC50

Urea extended phenol-formaldehyde binder (cured)* (25104-55-6)
Oral LD50 Rat: 7 gm/kg
Oral LD50 Mouse: 7 gm/kg

Antimony trioxide (may be in facing or adhesive)** (1309-64-4)
Oral LD50 Rat: 34600 mg/kg

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CARCINOGENICITY:

A: General Product Information

No additional information available.

B: Component Carcinogenicity

Fiber glass wool (65997-17-3)

ACGIH: A3 - Animal Carcinogen (related to glass wool fibers)

NTP: Suspect Carcinogen (related to glasswool) (Possible Select Carcinogen)

IARC: Monograph 43, 1988; Monograph 81, 2002 (related to insulation glasswool) (Group 3 (not classifiable)).

Antimony trioxide (may be in facing or adhesive)** (1309-64-4)

ACGIH: A2 - Suspected Human Carcinogen (production)

IARC: Monograph 47, 1989 (Group 2B (possibly carcinogenic to humans))

Chronic Toxicity

Antimony trioxide causes pneumoconiosis in humans. Antimony trioxide was tested for carcinogenicity by inhalation exposure in male and female rats of one strain and in female rats of another strain. It caused a significant increase in the incidence of lung tumors in females in both studies. No lung tumors were seen in male rats. Both of these studies provide only qualitative evidence of carcinogenicity of antimony trioxide in rats. In 1994, Groth et al., conducted a third study using a more rigorous inhalation protocol. Rats in this study were exposed to several concentrations of antimony trioxide by the inhalation route in rats. Technical limitations or exposure to high particle concentrations seriously limit interpretation of the two earlier studies. USEPA and CalEPA concluded that these studies are inadequate for use in quantitative cancer risk assessment. According to USEPA's recently proposed cancer risk assessment guidance, a margin of exposure (MOE) analysis is more appropriate when as with antimony trioxide, the carcinogenicity of a chemical may be a secondary effect of toxicity or of an induced physiological change. The MOE approach was adopted after conferring with CalEPA scientist involved in the Proposition 65 program who suggested using USEPA's "Proposed Guidance for Carcinogen Risk Assessment." An independent laboratory conducted a risk analysis using the MOE approach; the results indicated the potential levels of exposure to antimony trioxide in PGF products pose no significant cancer risk to the end-user of these products.

Fiber Glass Wool: In October 2001, IARC classified fiber glass wool as Group 3, "not classifiable as to its carcinogenicity to humans." The 2001 decision was based on current human and animal research that shows no association between inhalation exposure to dust from fiber glass wool and the development of respiratory disease. This is a reversal of the IARC finding in 1987 of a Group 2B designation (possibly carcinogenic to humans) based on earlier studies in which animals were injected with large quantities of fiber glass. NTP and ACGIH have not yet reviewed the IARC reclassification or the most current fiber glass health research; at this time, both agencies continue to classify glass wool based on the earlier animal injection studies.

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ECOLOGICAL INFORMATION:

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Antimony trioxide (may be in facing or adhesive)** (1309-64-4)

96 Hr LC50 fathead minnow: 833.0 mg/L

96 Hr LC50 bluegill: 530 mg/L

DISPOSAL CONSIDERATIONS:

US EPA Waste Number & Descriptions

A: General Product Information

This product, as supplied, is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Comply with state and local regulations for disposal. If you are unsure of the regulations, contact your local Public Health Department or the local office of the EPA.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.

REGULATORY INFORMATION:

US Federal Regulations

A: General Product Information

SARA 311/312: This product is not classified as hazardous under SARA 311/312.

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Antimony trioxide (may be in facing or adhesive)** (1309-64-4)

CERCLA: 1000 lb final RQ: 454 kg final RQ

State Regulations

A: General Product Information

No information available for the product.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

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Component	CAS#	CA	FL	MA	MN	NJ	PA
Fiber glass wool (¹ related to Mineral wool fiber)	65997-17-3	Yes ¹	No	Yes ¹	Yes ¹	No	Yes ¹
Antimony trioxide (may be in facing or adhesive)**	1309-64-4	Yes	Yes	Yes	Yes	Yes	Yes

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.

A: TSCA Status This product and its components are listed on the TSCA 8(b) inventory.
None of the components listed in this product are listed on the TSCA Export Notification 12(b) list.

B: Component Analysis - Inventory

Component	CAS#	TSCA	DSL	EINECS
Fiber glass wool	65997-17-3	Yes	Yes	Yes
Urea extended phenolformaldehyde binder (cured)*	25104-55-6	Yes	Yes	No
Antimony trioxide (may be in facing or adhesive)**	1309-64-4	Yes	Yes	Yes

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

OTHER INFORMATION:

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Antimony trioxide (may be in facing or adhesive)** (1309-64-4)
96 Hr LC50 fathead minnow: 833.0 mg/L
96 Hr LC50 bluegill: 530 mg/L

End of Material Safety Data Sheet

Disclaimer

The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorisation given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by the vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.

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