



INNOVATIONS FOR LIVING™

MATERIAL SAFETY DATA SHEET

NFPA	WHMIS	Personal Protective Equipment	Transport Symbol
			not regulated

Preparation Date: 16-December-1997

Revision Date 17-July-2007

Revision Number 20

1. PRODUCT and COMPANY IDENTIFICATION

Generic Product Name	700 Series Board	
Common name	700 Series Board, AF 220, AF 500 Series, AT-400 Series, Equipment & Appliance, Fabrication Board, Fiberglass Basic for Molding, FLEXWRAP®, Insul-Quick®, Jet-Cel Acoustical, Muffler Packing, NuKon® insulation blanks, Pipe & Tank Insulation, Railroad, SCR Board, SelectSound® Sanded Acoustical Board, SR & HT Range, TIW Thermal Insulation Wool, Transportation, Type 1000	
MSDS No.	17020-NAM-EN	
Recommended Use	Insulation	
Contact manufacturer	Owens Corning Insulating Systems, LLC One Owens Corning Parkway Toledo, OH 43659	
Emergency telephone number	Emergencies Only (after 5 pm AND weekends) CHEMTREC (24 hours everyday) CAUNTEC (Canada – 24 hours everyday)	1-419-248-5330 1-800-424-9300 1-613-996-6666
Health and Technical contacts	Health Issues Information (8am-5pm ET): Technical Product Information (8am-5pm ET):	1-419-248-8234 1-800-GET-PINK or 1-800-438-7465

2. HAZARD IDENTIFICATION

Emergency Overview		
Acrid smoke may be generated during a fire Hydrogen chloride may be released from vinyl faced products during fire. Exposure to dust may be irritating to eyes, nose and throat.		
Appearance: Pink, Yellow, Tan with No, vinyl, brown paper, foil or polypropylene facing	Physical State: Solid, Fibrous	Odor: Faint Resin

Potential Health Effects**Principle Routes of Exposure**

Eye
Skin Contact
Inhalation

Acute Effects

- **Eyes** May cause slight irritation
- **Skin** May cause slight skin irritation
- **Inhalation** May cause irritation of respiratory tract
- **Ingestion** Ingestion of material is unlikely

Chronic Effects There is no known chronic health effect connected with long-term use or contact with these products

Aggravated Medical Conditions

Chronic respiratory or skin conditions may temporarily worsen from exposure to this product

Carcinogenic Status

This product contains a component which is listed by IARC, OSHA or NTP. See Section 11

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Potential Environmental Effects

There is no known ecological information for this product

3. COMPOSITION/INFORMATION ON INGREDIENTS
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CAS #	Component	Percent by Wt.
65997-17-3	Glass Fiber, Wool	85-100
25104-55-6	Urea, polymer with formaldehyde and phenol	0-15

Non-Hazardous Statement The remaining components of this product are non-hazardous or are in small enough quantities as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product.

4. FIRST AID MEASURES

Eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 Minutes
- Do not rub or scratch eyes
- If eye irritation persists, consult a specialist

Skin contact

- Wash off immediately with soap and cold water.
- DO NOT use warm water because this will open up the pores of the skin, which will cause further penetration of the fibers.
- DO NOT rub or scratch affected areas.
- Use a wash cloth to help remove fibers or apply and remove an adhesive tape so that the fibers adhere to the tape and are pulled out of the skin.
- Remove contaminated clothing.
- If skin irritation persists, call a physician
- **Never use compressed air to remove fibers from skin**

- Ingestion**
- Accidental ingestion of this material is unlikely
 - If this does occur, watch person for several days to make sure intestinal blockage does not occur
 - Rinse mouth with water to remove fibers from the throat
 - If symptoms persist, call a physician
- Inhalation**
- Move to fresh air
 - If symptoms persist, call a physician

5. FIRE-FIGHTING MEASURES

- Flammability/Combustibility Properties** Non-flammable
- Suitable extinguishing media** dry chemical
foam
carbon dioxide (CO₂)
water fog
- Unsuitable Extinguishing Media** None
- Hazardous Combustion Products** Carbon Monoxide
Carbon Dioxide (CO₂)
Ammonia
Other undetermined compounds could be released in small quantities
- Explosion Data**
- Sensitivity to Mechanical Impact** Not available
- Sensitivity to Static Discharge** Not available

Special Hazards Arising from the Chemical

These products may release acrid smoke in a sustained fire
Vinyl faced products will release hydrogen chloride

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus (SCBA) and full fire fighting protective gear

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** Avoid contact with the skin and the eyes.
- Methods for Containment** • Material will settle out of air
• Prevent from spreading by covering or other means
- Methods for Clean-up** • Use an industrial vacuum cleaner with a high efficiency filter to clean up dust and fiber contamination
• Avoid dry sweeping
• After cleaning, flush away traces with water
• Pick up and transfer to properly labeled containers

7. HANDLING AND STORAGE

- Handling**
- Avoid dust formation
 - Do not breathe dust
 - Wear personal protective equipment
- Storage**
- Keep product in its packaging until use to minimize potential dust generation.
 - Material should be kept dry and covered

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico
Glass Fiber – Wool 65997-17-3	1 f/cc (respirable) 10 mg/m ³ (inhalable synthetic vitreous fibers) 3 mg/m ³ (respirable fraction - PNOC)	1 f/cc (respirable)	STEL – 0.6 mg/m ³ TWA – 0.05 mg/m ³ TWA – 1 f/cc	TWA – 0.15 mg/m ³

Engineering Controls

- Provide local exhaust and/or general ventilation to maintain exposure below regulatory and recommended limits.
- Dust collection system must be used in transferring operations, cutting or machining or other dust generating process.
- Vacuum or wet clean-up methods should be used

Personal protective equipment**Respiratory protection•**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators such as 3M model 8210 (3M model 8271 in high humidity environments)

Hot Application Use

When the temperature of the surface being insulated **exceeds** 250°F (121°C), including initial startup, the binder in these products may undergo various degrees of decomposition depending on the temperature in the application. The need for respiratory protection will vary according to the airborne concentration of the decomposition products released and accumulated in the area. Where the appropriate respiratory protection according to the conditions and exposure levels in the area.

Eye/face Protection

Safety glasses with side-shields

Skin Protection

- Protective gloves
- Long sleeved shirt and long pants

General Hygiene Considerations

- Wash hands before breaks and immediately after handling the product
- Avoid contact with skin, eyes and clothing
- Avoid getting dust into boots and gloves through wrist bands and pant tucks
- Remove and wash contaminated clothing before re-use

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pink, yellow, tan with or without a vinyl, brown paper, foil or polypropylene facing
Odor	Faint resin (organic)
Physical State	Solid, fibrous
pH	Does not apply
Flash point	Not available
Autoignition temperature	Does not apply
Boiling Point	Does not apply
Melting point/range	Not available
Flammability Limits in Air	lower / upper /
Explosive properties	Does not apply
Oxidizing properties	Does not apply
Vapor Pressure	Does not apply
Specific Gravity	Does not apply
Water solubility	Insoluble
VOC content	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Conditions to avoid	None expected
Incompatible Materials	None expected
Hazardous decomposition products	See Section 5 for hazardous decomposition products during a fire
Possibility of Hazardous Reactions	Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

General Product Information

Dusts may cause mechanical irritation to eyes and skin. Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. Higher exposures may cause difficulty breathing, congestion and chest tightness.

Component Analysis – LD50/LC50

	LD50 Oral
Urea, polymer with formaldehyde and phenol	7 g/kg Rat

Chronic toxicity

Fiber Glass Wool: In October 2001, the International Agency for Research on Cancer (IARC) classified fiber glass wool as Group 3, "not classifiable as to its carcinogenicity to humans." The 2001 decision was based on human studies and animal research that have not shown an association between inhalation exposure to dust from fiber glass wool and the development of respiratory disease. This classification replaces the IARC finding in 1987 of a Group B designation "possibly carcinogenic to humans."

In May 1997, the American Conference of Governmental Industrial Hygienists (ACGIH) adopted an A3 carcinogen classification for glass wool fibers. The ACGIH A3 classification considers glass wool to be carcinogenic in experimental animals at relatively high doses, by routes of administration, at sites, or by mechanisms that it does not consider relevant to worker exposure. It also reviewed the available epidemiological studies and concluded that they do not confirm an increased risk of cancer in exposed humans. Overall, the ACGIH found that the available medical/scientific evidence suggests that glass wool is not likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure.

In 1994, the National Toxicology Program (NTP) classified glass wool (respirable size) as "reasonably anticipated to be a human carcinogen." This classification was primarily based upon the 1987 IARC classification. NTP is currently considering reclassifying this material.

Component Analysis

	ACGIH	IARC	OSHA	NTP	Mexico
Fiber Glass, Wool 65997-17-3	A3 animal carcinogen	Group 3 not classifiable	X	Reasonably Anticipated	A3 animal carcinogen

Allergy	No information available
Neurological Effects	No information available
Mutagenic Effects	No information available
Reproductive Effects	No information available
Developmental Effects	No information available
Target Organ Effects	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity: This material is not expected to cause harm to animals, plants or fish

Chemical Fate

Persistence/Degradability	Not available
Bioaccumulation/Accumulation	Not available
Mobility in Environmental Media	Not available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with Local, State, Federal and Provincial regulations.

Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal.

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

RCRA This material is not expected to be a characteristic hazardous waste under RCRA

14. TRANSPORT INFORMATION

DOT not regulated

TDG not regulated

IMDG/IMO not regulated

RID not regulated

ADR not regulated

ICAO not regulated

IATA not regulated

MEX not regulated

15. REGULATORY INFORMATION

International Inventories

All components of this product are either listed on the following inventories or are exempt.

	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	China	KECL	PICCS	AICS
Glass Fiber – Wool 65997-17-3	XU	Present	-	266-046-0	-	-	Present	KE-17630	GEN-0994	Present
Urea, polymer with formaldehyde and phenol 25104-55-6	XU	Present	-	-	-	7-907	Present	KE-35185	-	Present

USA

Federal Regulations

SARA 313 Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA)

This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazardous Categorization

Acute Health Hazards	yes
Chronic Health Hazards	yes
Risk of Ignition	no
Sudden Release of Pressure	no
Reactive Hazard	no

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs

State Regulations**California 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.

State Right-To-Know

	CA	MA	MN	NJ	PA	IL	RI
Glass Fiber, Wool	X	X	X		X	X	X

Canada**Component Analysis – WHMIS IDL**

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	
Fiber Glass, Wool	65997-17-3	1% item 768 (884) (related to Fibrous Glass)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Status Controlled
WHMIS Classification D2A-Carcinogenicity, D2B-Irritation

16. OTHER INFORMATION

Preparation Date: 16-December-1997
Revision Date 17-July-2007
Revision Summary New format and company name

Disclaimer

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use

End of Safety Data Sheet