



INNOVATIONS FOR LIVING™

# MATERIAL SAFETY DATA SHEET

NFPA	WHMIS	Personal Protective Equipment	Transport Symbol
			not regulated

Preparation Date: 16-May-1995

Revision Date 24-May-2007

Revision Number 11

## 1. PRODUCT and COMPANY IDENTIFICATION

<b>Generic Product Name</b>	Heavy Density Pipe Insulation	
<b>Common name</b>	ASJ 25 Pipe Insulation, ASJ/SSL II® Pipe Insulation, Heavy Density Pipe Insulation, No-Wrap Pipe Insulation, Pipesield, SSL® Pipe Insulation, SSL-II® Pipe Insulation, VaporWick®, Vitro Fibras Pipe Insulation, Evolution™ Paper-Free ASJ	
<b>MSDS No.</b>	18994-NAM	
<b>Recommended Use</b>	Pipe Insulation	
<b>Contact manufacturer</b>	Owens Corning Insulating Systems, LLC One Owens Corning Parkway Toledo, OH 43659	
<b>Emergency telephone number</b>	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
<b>Health and Technical contacts</b>	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, gases or vapors may be released in high temperature applications or a sustained fire.

**Appearance:** Tan, with or without paper or aluminized jacket

**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

CAS #	Component	Percent by Wt.
65997-17-3	Glass Fiber, Wool	60-100
25104-55-6	Cured Binder (Urea, polymer with formaldehyde and phenol)	0-40

**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

<b>Flammability/Combustibility Properties</b>	Non-flammable
<b>Suitable extinguishing media</b>	dry chemical foam carbon dioxide (CO <sub>2</sub> ) water fog
<b>Unsuitable Extinguishing Media</b>	None
<b>Hazardous Combustion Products</b>	Carbon Monoxide Carbon Dioxide (CO <sub>2</sub> ) Ammonia Aldehydes Formaldehyde Other undetermined compounds could be released in small quantities
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	Not available
<b>Sensitivity to Static Discharge</b>	Not available

**Special Hazards Arising from the Chemical**  
Acrid smoke, gases or vapors may be released in a sustained fire.

**Protective Equipment and Precautions for Firefighters**  
Wear self-contained breathing apparatus (SCBA) and full fire fighting protective gear

**NFPA**            **Health** 1            **Flammability** 0            **Reactivity** 0            **Special Instructions:** none

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Avoid contact with the skin and the eyes.
<b>Methods for Containment</b>	<ul style="list-style-type: none"> <li>• Material will settle out of air</li> <li>• Material will disperse in water and cannot easily be removed after it is waterborne.</li> <li>• Prevent from spreading by covering or other means</li> </ul>
<b>Methods for Clean-up</b>	<ul style="list-style-type: none"> <li>• Pick or scoop up material and put into a suitable container for disposal as a non-hazardous waste.</li> <li>• Avoid dry sweeping</li> <li>• Use an industrial vacuum cleaner with a high efficiency filter to clean up dust and fiber contamination</li> <li>• After cleaning, flush away traces with water</li> </ul>

## 7. HANDLING AND STORAGE

<b>Handling</b>	<ul style="list-style-type: none"> <li>• Avoid dust formation</li> <li>• Do not breathe dust</li> <li>• Wear personal protective equipment</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>• Keep product in its packaging until use to minimize potential dust generation.</li> </ul>

- Keep in dry place

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 <sup>3</sup> (inhalable synthetic vitreous fibers) 3 mg/m <sup>3</sup> (respirable fraction - PNOC)	1 f/cc (respirable)	STEL – 0.6 mg/m <sup>3</sup> TWA – 0.05 mg/m <sup>3</sup> TWA – 1 f/cc	TWA – 0.15 mg/m <sup>3</sup>
Formaldehyde 50-00-0	0.3 ppm (ceiling)		STEL – 2 ppm STEL – 3 mg/m <sup>3</sup> TWA – 1 ppm TWA – 15 mg/m <sup>3</sup>	3 mg/m <sup>3</sup> – Ceiling 2 ppm - Ceiling

**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)
- A dust mask can be worn to as a precautionary measure to avoid slight irritation of the respiratory system

**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

<b>Appearance</b>	Tan, with or without paper or aluminized plastic film jacket
<b>Odor</b>	Faint resin (organic)
<b>Physical State</b>	Solid, fibrous
<b>pH</b>	Does not apply
<b>Flash point</b>	Not available
<b>Autoignition temperature</b>	Does not apply
<b>Boiling Point</b>	Does not apply
<b>Melting point/range</b>	Not available
<b>Flammability Limits in Air</b>	<b>lower / upper /</b>
<b>Explosive properties</b>	Does not apply
<b>Oxidizing properties</b>	Does not apply
<b>Vapor Pressure</b>	Does not apply
<b>Specific Gravity</b>	Does not apply
<b>Water solubility</b>	Insoluble
<b>VOC content</b>	Not available

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable
<b>Conditions to avoid</b>	None expected
<b>Incompatible Materials</b>	None expected
<b>Hazardous decomposition products</b>	Formaldehyde (free formaldehyde only released with high temperatures and humidity) Ammonia Carbon Monoxide
<b>Possibility of Hazardous Reactions</b>	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.

If product is subjected to high temperature processing, or if product is applied to hot surfaces, formaldehyde gas may be released.

**Component Analysis – LD50/LC50**

	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
Cured Binder (Urea, polymer with formaldehyde and phenol)	7 g/kg Rat		
Formaldehyde	100 mg/kg Rat	270 mg/kg Rabbit	0.578 mg/L 4H Rat 250 ppm 4H 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**

	<b>ACGIH</b>	<b>IARC</b>	<b>OSHA</b>	<b>NTP</b>	<b>Mexico</b>
<b>Fiber Glass, Wool 65997-17-3</b>	A3 animal carcinogen	Group 3 not classifiable	X	Reasonably Anticipated	A3 animal carcinogen
<b>Formaldehyde 50-00-0</b>	A2 Suspected human carcinogen	Group 1 Carcinogenic to humans	X	---	A2

**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
Cured Binder (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

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16. OTHER INFORMATION
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**Preparation Date:** 16-May-1995  
**Revision Date** 24-May-2007  
**Revision Summary** New product name was added

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**