

MATERIAL DATA SAFETY SHEET



Fiberglass H-Block

Section I. Identity And Company Information

Identity: Fiberglass H-BLOCK Insulation

Manufacturer's Name: ICA, Inc.

Address: 500 South Ninth Street, Lehighton, PA 18235

Emergency Telephone Number: (610) 377-6100

Telephone Number for Information: (610) 377-6100

Section II. Ingredient Information

Common Name	Chemical Name	CAS#	Wt%
Fiberglass Wool	Fibrous Glass	65997-17-3	85-96
Cured Binder	Urea extended phenol – formaldehyde resin	25104-55-6	4-15
Formaldehyde (trace)	Formaldehyde	50-00-0	<0.1

Section III. Health Hazard Data

Primary Route(s) of Entry:

Inhalation, skin, eye

Potential Health Effects:

Acute: Dust may cause mechanical irritant and may cause irritation or soreness of the eyes, skin and mucous membranes of respiratory tract.

Chronic: Results from the most recent cohort and nested case-control epidemiological studies of U.S. workers exposed to glass wool have not provided evidence of an association between exposure to fibers and risk for respiratory cancer or mesothelioma.

Component Carcinogenicity:

Fiberglass Wool

IARC: Group 3 (not classifiable)

NTP: Glass wool fibers was first listed as "reasonably anticipated to be a human carcinogen" by National Toxicology Program (NTP) in the Seventh Annual Report on Carcinogens (1994). However, the listing was changed in the Twelfth Annual Report on Carcinogens (2011) to "Certain glass wool fibers (inhalable) are reasonably anticipated to be a human carcinogen".

The updated NTP report noted:

"Certain glass wool fibers (inhalable) are reasonably anticipated to be a human carcinogen" based on

1. Sufficient evidence of carcinogenicity from studies in experimental animals of inhalable glass wool fibers as a class and
2. Evidence from studies of fiber properties which indicated that only certain fibers within this class - specifically, fibers that are biopersistent in the lung or tracheobronchial region - are reasonably anticipated to be a human carcinogen.

NTP explains this by saying that insulation fiberglass is less durable and therefore less likely to remain in your lungs when inhaled, as compared to other types of glass fiber used for "special purposes" like aircrafts and high-efficiency air filters.

OSHA: Not listed

ACGIH: A3 (animal carcinogen with unknown relevance to humans)

Formaldehyde

IARC: Group I (carcinogen to humans)

NTP: Group IIB (reasonably anticipated to be a human carcinogen)

OSHA: Cancer hazard (29 CFR 1910.1048)

ACGIH: A2 (suspected human carcinogen)

Medical Conditions Aggravated by Exposure:

Chronic respiration or skin condition may temporarily worsen from exposure to these products.

Section IV. Emergency And First Aid Procedures

Inhalation: Move to fresh air. Seek medical attention if irritation persists.

Eye Contact: Wash eyes with running water for at least 15 minutes. Seek medical attention if irritation persists.

Skin Contact: Wash with mild soap and running water. Use a washcloth to help remove fibers. To avoid further irritation, do not rub or scratch irritated areas. Rubbing or scratching may force fiber into skin. Seek medical attention if irritation persists.

Ingestion: Ingestion of this material is unlikely. If this does occur, observe individual for several days to insure that intestinal blockage does not occur.

Section V. Fire & Explosion Hazard Data

Flash Point, °C, Test Method: None

Auto-Ignition Temperature: NA

Flammable Limits, vol%: None

Extinguishing Media: Water, foam, CO₂ or dry chemical

Fire Fighting Instructions:

Use self-contained breathing apparatus in a sustained fire.

Unusual Fire and Explosion Hazards:

Special care should be taken when working close to products with special facings coatings, as these may burn.

Section VI. Exposure Limits And Personal Protection

Ingredient	OSHA PEL	ACGIH TLV
Fibrous Glass	1 fiber/cc TWA	10 mg/m ³ (dust)
Cured Binder	None	None
Formaldehyde	0.75 ppm TWA, 2 ppm STEL	0.3 ppm Ceiling

Personal Protection:

Respiratory protection: 3M Model 8710, 3M 9900 (in high humidity environments) or equivalent for exposures over 5mg/m³ respirable dust.

Skin Protection: Long-sleeved, loose fitting clothing and gloves.

Eye Protection: Goggles or face shield.

Engineering Control: General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below regulatory limits. Dust collection systems should be used in operations involving cutting or machining and may be required in operations using power tools.

Section VII. Physical And Chemical Properties

Boiling Point, °C:	NA
Specific Gravity (H ₂ O=1):	Unknown
Vapor Pressure, mmHg at 20°C:	NA
Volatile volume %:	0
Vapor Density (Air=1):	NA
Evaporation Rate (n-Bu. Ac.=1):	NA
Solubility in Water:	Insoluble
pH:	Around 9
VOC, g/liter (Lb/Gallon):	0
Viscosity:	NA
Appearance & Odor:	Amber insulation - may possess faint resin odor. Some products have a foil or battery mat facing.

Section VIII. Reactivity Data

Stability:	<input type="checkbox"/> Unstable	<input checked="" type="checkbox"/> Stable
Incompatibility (Material to Avoid):	Hydrofluoric acid.	
Hazardous Polymerization:	<input type="checkbox"/> Will occur	<input checked="" type="checkbox"/> Will not occur
Photochemical Reactivity:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Hazardous Decomposition products:	None, except in fire. See Section V of MSDS for combustion product statement.	

Section IX. Environmental Protection Information

Spill Response:

Land Spill: Scoop up or vacuum material and put into suitable container for disposal as a non-hazardous waste.

Water Spill: This material will sink and disperse along the bottom of waterways and ponds. It cannot easily be removed after it is waterborne; however, the material is non-hazardous in water.

Air Release: This material will settle out of the air. It can then be scooped up or vacuumed for disposal as non-hazardous waste.

RCRA Hazard Class:

Non-Hazardous

Section X. Special Precautions

Handling & Storage:

No special storage or handling procedures is required for this material.

Precautions for Repairs & Maintenance of Contaminated Equipment:

Avoid inhalation.

Work/Hygienic Practices:

Wash work clothing separately. Wash exposed skin area immediately with warm, soapy water.

Section XI. Transport Information

DOT Proper Shipping Name: Not Regulated

ID Number: None

DOT Classification: Non-hazardous

Label Required: None

Packaging Requirements: None

RQ: None

Max. Net Quantity in One Package: None

Section XII. Regulatory And Hazard Rating Information

TSCA:

All components are listed on TSCA Inventory: Yes No

SARA Title III:

Hazard Categories:

Acute Health: Yes
Chronic Health: Yes
Fire Hazard: No
Pressure Hazard: No
Reactivity Hazard: No

Section 302 Extremely Hazardous Substance List, 40 CFR 355: Yes No

Section 313 Toxic Chemical Lists, 40 CFR 372.65: Yes No

California Proposition 65:

Formaldehyde is listed as a chemical known to the state of California to cause cancer.

Glass Wool Fibers: Glass wool fibers (airborne particles of respirable size) were listed as chemicals known to the state of California to cause cancer. However, the recent list (01/04/2012) has been changed to: "Glass Wool Fibers (inhalable and biopersistent) are listed as chemicals known to the state of California to cause cancer".

Insulation glass wool fibers are not biopersistent; therefore, insulation glass wool fibers will less likely cause cancer.

HMIS Rating:

Health *1
Flammability 0
Physical Hazard 0

NFPA Rating:

Health 2
Flammability 2 (facing, packaging)
Reactivity 0