

MATERIAL SAFETY DATA SHEET

Thermwell Products SP57/S Water Heater Insulation Jacket

II. PRODUCT INGREDIENTS

INGREDIENT NAME	CAS NUMBER	%	PEL AND TLV (except as noted)
Fibrous Glass	65997-17-3	83-97	3 FIBERS/CC-NIOSH 5mg/M ³ - NUISANCE RESPIRABLE - OSHA 10mg/M ³ - NUISANCE TOTAL - ACGIH
Phenolic Resin (cured)	25104-55-6	3-17	NA

III. PHYSICAL DATA

BOILING POINT (°F): NA**
MELTING POINT: NA
VAPOR PRESSURE (mmHg @ 20°C): NA
PERCENT VOLATILE BY VOLUME: NA
VAPOR DENSITY (AIR=1): NA
SOLUBILITY IN WATER: INSOLUBLE
APPEARANCE AND ODOR: Yellow or black insulation. No appreciable odor. Some products have a vinyl, kraft paper, foil or glass cloth facing.

SPECIFIC GRAVITY (H₂O=1): VARIABLE
EVAPORATIVE RATE (ETHYL ETHER=1): NA
pH: NA

**NA = Not Applicable

IV. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (°F): NA
FLAMMABILITY LIMITS: LEL: NA UEL: NA
AUTO-IGNITION TEMPERATURE (°F): NA
EXTINGUISHING MEDIA: Water, Foam, Dry Chemical, CO₂
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Resin and paper or plastic facings will burn causing dense acrid smoke.
Vinyl faced products in fire conditions give off hydrogen chloride, a highly irritating gas.

SPECIAL FIRE-FIGHTING INSTRUCTIONS:

Wear self-contained breathing apparatus.

MATERIAL SAFETY DATA SHEET

FIBER GLASS

V. HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: Inhalation, skin and eye contact

HEALTH HAZARDS (ACUTE AND CHRONIC)

INHALATION:

ACUTE: Mechanical irritation of the mouth, nose and throat.

CHRONIC: The International Agency for Research on Cancer (IARC) has classified fiber glass wool as a possible cancer causing agent to humans. This classification was substantially based on experiments in which fiber glass wool was injected or implanted in animals. However, animal inhalation studies with exposure to large quantities of glass fiber have not demonstrated an association between glass fibers and lung cancer. Additionally, large scale human mortality studies of U.S. and European fiber glass wool factory workers did not provide conclusive evidence that fiber glass wool caused cancer in humans. However, IARC does regard it prudent to treat any material for which there is sufficient evidence of carcinogenicity in animals as if it were a possible carcinogen to humans.

SKIN CONTACT:

ACUTE: Transient mechanical irritation. Skin absorption does not occur.

CHRONIC: None Known

EYE CONTACT:

ACUTE: Direct eye contact will cause mechanical irritation.

CHRONIC: None Known

AGGRAVATED MEDICAL CONDITIONS:

Pre-existing upper respiratory and lung diseases may be aggravated by dust. The product is a mechanical irritant for skin, eyes and upper respiratory system.

SIGNS AND SYMPTOMS OF EXPOSURE:

Itching and irritation of upper respiratory tract.

CARCINOGENICITY: NTP LISTED IARC CLASSIFIED OSHA REGULATED

No

Yes

No

EMERGENCY & FIRST-AID PROCEDURES:

INHALATION: Remove to fresh air. Drink water to clear throat and blow nose to evacuate fibers.

SKIN CONTACT: Frequent rinsing of skin surface with water to remove accumulated fibers will minimize irritation. If irritation persists consult a physician. Treat as a mechanical irritant.

EYE CONTACT: Flush eye with flowing water for at least 15 minutes.

	MATERIAL SAFETY DATA SHEET
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VI. REACTIVITY DATA

STABILITY: Material is stable. Hazardous polymerization will not occur.

INCOMPATIBILITY: Hydrofluoric acid will dissolve the glass.

HAZARDOUS DECOMPOSITION PRODUCTS: Facing and binder burns or decomposes in a fire. Decomposition products are carbon monoxide, carbon dioxide, carbon particulate and traces of hydrogen cyanide derived from pyrolysis of resin. Vinyl faced products will emit hydrogen chloride in a fire.

VII SPILL, LEAK & DISPOSAL PROCEDURES**ACTION TO TAKE FOR SPILLS**

Dust release from insulation - Vacuum clean dust. Use a dust suppressant if sweeping is necessary.

WASTE DISPOSAL METHOD:

Fibrous glass is generally classified as a nonhazardous waste and disposal may be in land fill for noncritical materials. Local regulations should be consulted.

EPA HAZARDOUS WASTE NUMBER: NA

This material is not regulated under the "RCRA" hazardous waste regulations.

VIII SPECIAL PROTECTION INFORMATION

VENTILATION: Use sufficient natural or mechanical ventilation to maintain airborne dust concentration below TLV.

RESPIRATORY: Wear a disposable mask designed for nuisance type dusts such as 3M Model 9900 or its equivalent.

EYE AND FACE: Safety glasses, goggles or face shields should be worn when materials are being handled or applied.

GENERAL: Wear long-sleeved, loose fitting clothing, gloves and head covering. Wash work clothes separately from other clothing to prevent glass fiber migration. Rinse washer thoroughly.

IX. SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Keep material dry and minimize the generation of dust.

HEAT-UP PRECAUTIONS: During initial heat-up of high temperature insulation products to temperatures above 350°F, an acrid odor and smoke may be given off. Adequate ventilation should be provided to protect against harmful fumes. In confined spaces, occupants should wear a self-contained breathing apparatus during this period.

Double Reflective Foil Insulation

Specifications: Must be compatible with all types of insulation, fire retardant, applicable to IC-rated lights to prevent shut off feature when overheated. Provide MSDS. State whether vented or non-vented, dimensions. Must be tested according to UL 1598.

Double Reflective, Double Bubble Foil Insulation

Must meet ASTM E84-14. Must meet 25 ASTM E84-14.

State width and length of roll.

State R value