



Regal

INDUSTRIES, INC.

"INSULATION THAT WORKS!"

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REGAL CELLULOSE INSULATION SPECIFICATIONS

SUBJECT: HEALTH ISSUES

- 1) Please refer to page 2 of Regal Industries' Material Safety Data Sheet (MSDS).
Section VI; Health Hazard Data:
Carcinogenicity---No Health Organization lists Regal Cellulose Insulation as a cancer risk.
- 2) All Regal Industries Cellulose Thermal Insulation is tested per ASTM-C739.
This includes:
 - a.) Fungi resistance.....product must be as resistant as Southern pine wood.
 - b.) Odor emission.....No objectionable odor from product allowed.
- 3) OSHA lists the Permissible Exposure Limit (PEL) for cellulose thermal insulation as 15 milligrams per cubic meter. The MSDS lists Regal Cellulose Thermal Insulation at less than 10 milligrams per cubic meter.
- 4) A comfort dust mask is recommended during installation. The National Institute for Occupational Safety and Health (NIOSH) states, "The bulk of the material composing cellulose insulation would be considered nuisance dust." Nuisance dusts are stated to have little adverse effect on lungs and do not produce significant organic disease or toxic effect when exposures are kept under reasonable control.
- 5) Ingredients in Regal Cellulose Thermal Insulation:
 - a) Cellulose is obtained by fiberizing newspaper. Foreign material is removed prior to the fiberizing. Regal Cellulose Insulation is an over 80% recycled product made from engineered wood used to produce newspaper and other paper products.

DRY BLOWN PRODUCTS (Blue 30, Green 40, MaxPak 44, Professional 50)

- b) Boric Acid(H3B03)
- c) Ammonium Sulfate(NH4) 2S04

WET SPRAY PRODUCTS (Stabilized and Stabilized BA)

- b) Boric Acid(H3B03)
- c) Ammonium Sulfate(NH4) 2S04; not used in Stabilized BA (all-borate)
- d) Mono Ammonium Phosphate...(MAP); not used in Stabilized BA (all-borate formula)
- e) Starch based adhesive

Ralph Sweany, BSME
Regal Industries Plant Engineer

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