

A. P. GREEN REFRACTORIES CO.

SUBSIDIARY OF USG CORPORATION

MEXICO, MISSOURI 65265

ROBERT W. HILL
EXECUTIVE VICE PRESIDENT

August 1, 1985

PLAINTIFF'S EXHIBIT

CHV-775c

Dear Customer:

As a valued ceramic fiber customer, we want to keep you fully informed regarding these products. We are proud of our quality, and it is most important that we give full attention to safety and health.

As you may know, preliminary studies indicate that ceramic fibers might be an animal carcinogen. However, on humans there are no known chronic health effects from long-time exposure to these fibers. Ceramic fibers have joined other nationally distributed products of various companies which are suspected of being hazardous to human health.

The preliminary animal studies do concern us. We are instituting prudent protective procedures in our manufacturing and urge you to do the same in your use of these products.

To provide further assistance to you, we have revised our Material Safety Data Sheets and warning labels on these products. The MSDS's are being distributed immediately, and by the end of August the new warning labels will go on products shipped. The enclosed MSDS is for our products which contain 100% ceramic fiber. The same protection should be provided for all of our products containing ceramic fibers.

As a member of the Thermal Insulation Manufacturers' Association (TIMA), we are participating in work being done by independent researchers who are studying animals and additionally the chronic health effects in humans from exposure to ceramic fibers. Also, we are working directly with other consultants and conducting our own tests. You will be informed of any new developments.

If you have any questions regarding this, contact your A. P. Green Sales Representative or you may call Dave McCumber, our Corporate Manager of Safety and Environmental Control, at 314-473-3592.

Yours very truly,

RWHill:mc

Chevron BB
015755

WARNING

THIS PRODUCT CONTAINS CERAMIC FIBER, WHICH IS UNDER INVESTIGATION AS A POSSIBLE CARCINOGEN. BREATHING FIBER OR DUST CAN CAUSE LUNG INJURY AND EXPOSURE TO FIBER MIGHT CAUSE SKIN OR EYE IRRITATION.

THE FOLLOWING PRECAUTIONARY PRACTICES SHOULD BE FOLLOWED:

- MINIMIZE AIRBORNE FIBERS. USE A NIOSH-APPROVED RESPIRATOR.
- WEAR LONG-SLEEVED, LOOSE-FITTING CLOTHING, GLOVES AND EYE PROTECTION.
- WASH ALL EXPOSED SKIN AREAS GENTLY WITH SOAP AND WARM WATER AFTER CONTACT WITH THIS PRODUCT.
- WASH WORK CLOTHING SEPARATELY AND RINSE WASHING MACHINE AFTER USE.
- IF THIS PRODUCT HAS BEEN IN SERVICE AT TEMPERATURES ABOVE 1500° F. (875° C.), CRISTOBALITE (A FORM OF SILICA) WILL BE PRESENT, WHICH CAN CAUSE A SERIOUS LUNG INJURY. SEE MSDS FOR SPECIFIC PRECAUTIONARY PROCEDURES.
- DO NOT INGEST. IF THIS HAPPENS, CALL A PHYSICIAN.

FOR INDUSTRIAL USE ONLY

No. 8R

8/1/85

MATERIAL SAFETY DATA SHEET

SECTION I

A. P. Green Refractories Co.
Green Boulevard, Mexico, Missouri 65265
Phone 314/473-3626

PRODUCT NAME: INSWOOL BLANKET
& INSWOOL BULK

PRODUCT TYPE: Refractory fiber

CHEMICAL FAMILY: Refractory

FORMULA: Proprietary

SECTION II

PRODUCT INGREDIENTS:

Chemical

TLV

CAS #

→ Refractory fiber
(Al₂O₃-SiO₂ Glass)

2 fibers/cc⁺

Not established

⁺ - A. P. Green workplace exposure guideline.

SECTION III

PHYSICAL DATA

SOLUBILITY IN WATER - Nil VOLATILES BY VOLUME (%): Nil

SPECIFIC GRAVITY - 2.6 MELTING POINT: Not applicable

APPEARANCE AND ODOR - White to off-white fiber, no odor.

SECTION IV

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None

EXTINGUISHING MEDIA: Not combustible

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

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SECTION V

HEALTH HAZARD DATA

EFFECT OF OVEREXPOSURE:

EYES ACUTE: Causes mechanical irritation
CHRONIC: None known

SKIN ACUTE: May cause skin irritation
CHRONIC: None known

INHALATION ACUTE: May cause upper respiratory irritation.
CHRONIC: May cause lung damage. Long term (lifetime) animal inhalation studies have been inconclusive. Other animal studies have shown refractory fiber to cause cancer of the pleura.

INGESTION ACUTE: Unknown
CHRONIC: Unknown

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Immediately flush eyes with water for 15 minutes. Call physician if irritation persists.

SKIN: Wash skin with water followed with soap and water. If irritation continues, call physician.

INHALATION: Remove to fresh air. Get medical attention.

INGESTION: Call physician immediately. Induce vomiting only if instructed to do so by the physician.

SECTION VI

REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY: Hydrofluoric acid and strong alkali

HAZARD POLYMERIZATION: Will not occur.

SECTION VII

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Scoop up and place in container for disposal.

WASTE DISPOSAL METHOD: To landfill in accordance with local, state, and federal regulations.

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SECTION VIII

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None normally required. If above 2 fibers/cc a NIOSH approved respirator should be used. If material has been exposed to elevated temperatures (1600° F or above), a NIOSH approved respirator for use with silica should be used.

VENTILATION: General mechanical ventilation is usually adequate.

EYE PROTECTION: Goggles or safety glasses with side shields should be worn. Contact lenses should not be worn while handling this material.

OTHER PROTECTION: Long sleeved and long legged clothing should be worn to prevent skin contact. Work clothing should be washed separately. Rinse washing machine thoroughly after use.

SECTION IX

SPECIAL PRECAUTIONS

OTHER PRECAUTIONS: This product as supplied does not contain cristobalite; however, avoid breathing refractory dust during tear-out of this refractory after it has been in service. When exposed to temperatures above 1600° F (875° C) a large percentage of this material turns to cristobalite. A NIOSH approved respirator should be used. See the NIOSH Certified Equipment list for the correct type for the dust level you encounter.

This material safety data sheet contains confidential proprietary information and is not to be disclosed to the general public or to competition. The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with A. P. Green Refractories or not. This information is offered solely for use in your evaluation of this product in respect to safety, health and environmental hazards.