8/1/85

PLAINTIFF'S EXHIBIT
CHV-642

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 (Al_2O_3-SiO_2 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.

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.

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.