BUSINESS CONFIDENTIAL

********** VENDOR MATERIAL SAFETY DATA SHEET **********

UNION CARBIDE CORP.

DATE: 03/14/84

INTERNAL CHEMICAL DATA SHEET

NAME: ASBESTOS

CAS NUMBER: 0001332214

LAST REVISION DATE: 09/08/82

SYNONYMS: CHRYSOTILE ASBESTOS

PLAINTIFF'S EXHIBIT

UC-3602

NFPA HAZARD SIGNAL	UCC HAZARD SIGNAL
HEALTH:	HEALTH: 4
FIRE:	FIRE: 0
REACTIVTY:	REACTIVITY: 1
UNUSUAL REACTIVITY:	

APPEARANCE: White fibrous solid (0068 02-24-82)

ODOR: NOT AVAILABLE

THE MAIN HAZARDS

(0068 02-24-82)

Asbestos is carcinogenic and/or co-carcinogenic for humans. Irritating to the skin, eyes or respiratory tract.

EMERGENCY PROCEDURES

FIRE (0068 02-24-82)

Extinguishing Media: This material is not combustible in air. Use extinguishing media as appropriate for the surrounding materials in a fire situation.

IN EYE

NOT AVAILABLE

ON SKIN

NOT AVAILABLE

SWALLOWED

NOT AVAILABLE

INHALED

NOT AVAILABLE

SPILLAGE (0068 09-08-82)

Notify safety personnel of spill! Exclude all from spill area except trained clean-up personnel who have protective equipment. Use a wet method or an approved vacuum cleaning system to pick up spills. The techniques used must collect particulate without dispersing dust into the air. Waste must be placed in dust-tight containers or sealed plastic bags for disposal. Label properly. Deposit in an approved landfill.

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FIRE AND EXPLOSION
Concentration: 95%

FLASH POINT: NOT APPLICABLE

AUTOIGNITION TEMPERATURE: NOT APPLICABLE

FLAMMABLE LIMITS (VOLUME PERCENT IN AIR)

NOT APPLICABLE

EXPLOSION HAZARDS

NOT AVAILABLE

TOXIC COMBUSTION PRODUCTS

NOT AVAILABLE

STABILITY--THERMAL/IMPACT (0068 02-24-82)

Material is inert under ordinary room temperature and heated use conditions

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CHEMICAL DATA
Concentration: 95%

FORMULA/COMPOSITION (0068 02-24-82)

Mg3 Si2 O5 (OH)4

CHEMICAL FAMILY/MOLECULAR WT.

NOT AVAILABLE

REACTIVITY WITH

OXIDIZING AGENTS

NOT AVAILABLE

ACIDS (0068 02-24-82)

Strong acids can attack chrysotile and rapidly extract its MgO and H2O; can be decomposed by glacial acetic acid.

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ASBESTOS
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ALKALIS (0068 02-24-82)

Resists strong alkali

WATER (0068 02-24-82)

Hot water slowly breaks down asbestos.

AIR

NOT AVAILABLE

OTHER CHEMICALS

NOT AVAILABLE

HEALTH DATA
Concentration: 95%

TLV - (TWA) 2 fibers/cc. (>5 microns in length) (0068 02-24-82)

ODOR THRESHOLD NOT AVAILABLE

PROTECTIVE CLOTHING (0068 02-24-82)

For nonroutine or emergency conditions where excessive dust is present, an approved respirator should be used. Depending on exposure level, it may be necessary to provide body-covering work clothes, special vacuuming facilities for clothes and suitable laundering or disposal arrangements, change areas with dual lockering, etc.

EFFECT OF LIQUID OR SOLID

ON EYES

NOT AVAILABLE

ON SKIN

NOT AVAILABLE

BY SKIN ABSORPTION
Skin Penetration Dose: NO DATA

NOT AVAILABLE

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BY INGESTION
Single Oral Dose: NO DATA

NOT AVAILABLE

EFFECT OF VAPOR OR DUST

ON EYES (0068 02-24-82)

Irritating to the eyes as a particulate material.

ON SKIN (0068 02-24-82)

May be irritating to the skin as a particulate material.

INHALED-ACUTE (0068 02-24-82)
Inhalation Dose: TD-Lo (human) 1.2 fb/cc for 19 years.

Excessive inhalation can cause pleural plaque, a thickening of the lung lining. The significant industrial hazard arise from excessive dust inhalation with damage requiring years to become evident.

INHALED-CHRONIC (0068 02-24-82)

Chronic inhaltion of high levels of asbestos particles can produce asbestosis, a disabling fibrosis of the lungs which gradually reduces lung capacity and efficiency and can also cause pleural plaque, a thickening of the lung lining. Cancer can result from excessive inhalation of asbestos particulate, which may required decades to develop.

PHYSICAL DATA
Concentration: 95%

SPECIFIC GRAVITY: NOT AVAILABLE

BOILING POINT: Decomposes at 600 deg.C. (0068 02-24-82)

FREEZING POINT: NOT AVAILABLE

VAPOR PRESSURE: Nil (0068 02-24-82)

COEFFICIENT OF EXPANSION: NOT AVAILABLE

VAPOR DENSITY: NOT AVAILABLE

SOLUBILITY IN WATER: Insoluble(decomposes in hot water)(0068 02-24-82)

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VISCOSITY: NOT AVAILABLE

HANDLING AND STORAGE RECOMMENDATIONS

NORMAL STORAGE TEMPERATURE: NOT AVAILABLE

NORMAL STORAGE PRESSURE: NOT AVAILABLE

FILLING RATIO: NOT AVAILABLE

DOT HAZARD CLASS: NOT AVAILABLE

HANDLING AND STORAGE MATERIALS

UNSUITABLE

NOT AVAILABLE

SUITABLE

NOT AVAILABLE

ENVIRONMENTAL ASPECTS

WATER BIODEGRADABILITY

NOT AVAILABLE

AQUATIC TOXICITY

NOT AVAILABLE

ADSORBABILITY ON CARBON FROM WATER

NOT AVAILABLE

BIOMASS TOXICITY

NOT AVAILABLE

AIR: DISPOSAL OPTIONS

NOT AVAILABLE

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