

RESEARCH TRIANGLE INSTITUTE -- ASBESTOS

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MSDS Safety Information
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FSC: 5330
MSDS Date: 12/05/1994
MSDS Num: BZLWW
LIIN: 00N063888
Product ID: ASBESTOS
MFN: 01
Responsible Party
Cage: 3A730
Name: RESEARCH TRIANGLE INSTITUTE
Address: 3040 CORNWALLIS ROAD
City: RESEARCH TRIANGLE PARK NC 27709
Info Phone Number: 919-541-6800
Emergency Phone Number: 919-541-6800
Preparer's Name: ROBERT L PERKINS
Published: Y

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Contractor Summary
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Cage: 3A730
Name: RESEARCH TRIANGLE INSTITUTE
Address: 3040 CORNWALLIS ROAD
Box: 12194
City: RESEARCH TRIANGLE PARK NC 27709-5000
Phone: 919-541-6800/919-541-7184

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Ingredients
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Cas: 12001-29-5
RTECS #: CI6478500
Name: ASBESTOS, CHRYSOTILE;(CHRYSOTILE ASBESTOS)
% Wt: >95
OSHA PEL: 0.2 FIBERS/CC
ACGIH TLV: 2 FIBERS/CC

Cas: 1309-38-2
RTECS #: OM4800000
Name: MAGNETITE; (MAGNETITE FE*20*4)
% Wt: 0.5-2
OSHA PEL: N/K (FP N)
ACGIH TLV: N/K (FP N)

Name: SUPP DATA: TO HAVING ASBESTOS EXPOSURES. EYE: USUALLY REVERSIBLE ON
REMOVAL FROM EXPOSURE. INGEST: SOME STUDIES

Name: ING 3: INDICTE THAT ASBESTOS OVEREXP IS IMPLICATED AS CAUSE OF GI &
LARYNGEAL CANCERS, BUT THE EVIDENCE IS

Name: ING 4: CONFLICTING; NO DOCUMENTED HUMAN EFFECTS.

Name: FIRST AID PROC: SURVEILLANCE PROGRAM MUST BE ESTAB FOR ASBESTOS-EXPOSED
PERS I/A/W/REQS OF OSHA 29CFR.1910.1001.

Name: SPILL PROC: SPILLED MATLS. USE WATER/OTHER DUST SUPPRESSANTS WHERE

SWEEPING IS UNAVOIDABLE. DO NOT STIR UP DUST.

Name: ING 7: CLEAN-UP PERS SHOULD WEAR APPROVED RESPS & PROT CLTHG. WASTE
& CONTAMD PROT CLTHG MUST BE PLACED IN DUST-

Name: ING 8: TIGHT CONTAINERS AND BE PROPERLY LABELED FOR DISPOSAL.

Name: WASTE DISP METH:A HAZARDOUS MATL UNDER CWA 207(A) & HAS REPORTABLE
QTY OF ONE POUND. DEPOSIT WASTE CNTNRS IN

Name: ING 10: SECURED LANDFILL IN ACCORDANCE W/FEDERAL, STATE & LOCAL
REGULATIONS.

Name: OTHER PROT:RESP PROT & PROT CLTHG AS REQD BY APPLIC REG, USE
VACCUM/WET CLEANING METHODS, DISP OF DUST, FRIABLE

Name: ING 12: WASTE MATLS & CONTAMD PROT EQUIP IN DUST-TIGHT CONTAINERS.

Name: RESP PROT: EFFICIENCY FILTERS; UP TO 100 TIMES PEL - POWERED
AIR-PURIFYING RESP W/HIGH-EFFICIENCY FILTERS OR

Name: ING 14: SUPPLIED-AIR RESPIRATOR OPERATED IN CONTINUOUS FLOW MODE.

Name: VENT: DISPERSION INTO ENVIRON. ISOLATE WORK AREA & POST SIGNS WHERE
ASBESTOS CONTAM MAY EXCEED PEL. HAND/POWER

Name: ING 16: OPERATED TOOLS WHICH MAY RELEASE ASBESTOS IN EXCESS OF PEL MUST
BE EQUIPPED WITH LOCAL EXHAUST SYSTEMS.

Name: OTHER PROT EQUIP: WHOLE-BODY CLTHG, HOOD COVERINGS, GLOVES & FOOT
COVERINGS ARE REQD UNDER CFR 1910.1001.

Name: STOR/HDNG: DUST W/OUT PROVIDING PROPER ENCLOSURE/CONTROL MEASURES. USE
DUST SUPPRESSION CONTROL MEASURES AT ALL

Name: ING 19: STAGES OF ASBESTOS HNDLG, USE & DISP.
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Health Hazards Data
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LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Route Of Entry Inds - Inhalation: YES

Skin: YES

Ingestion: NO

Carcinogenicity Inds - NTP: YES

IARC: YES

OSHA: YES

Effects of Exposure: ACUTE: INHAL: ANY DUST(INCLUDING ASBESTOS) WHICH IS
INHALED IN SUBSTANTIAL AMOUNTS, MAY IRRIT RESP TRACT. EXTREME EXPOS CAN
OVERWHELM NORMAL RESP DEFENSE MECHANISMS & RESULT IN TEMP DFCLTY IN
BRTHG. SKIN: ASBESTOS SPLINTERS MAY PENETRATE SK IN & CAUSE ASBESTOS
"CORNS". EYE: MAY CAUSE IRRIT & ABRASIONS.(EFTS OF OVEREXP)

Explanation Of Carcinogenicity: ASBESTOS: IARC MONOGRAPHS, SUPP, VOL 7, PG
106,1987: GROUP 1. NTP 7TH ANNUAL REPORT ON CARCINS, 1994: KNOWN(SUPDAT)

Signs And Symptoms Of Overexposure: HLTH HAZ: CHRONIC: INHAL: OVEREXP TO
ASBESTOS HAS CAUSED DMG TO LUNGS(ASBESTOSIS), LUNG CANCER & MESOTHELIOMA
OF PLEURA & PERITONEUM. SYMPS WHICH ARE USUALLY NOT MANIFESTED UNTIL
15-20 YEARS AFTER EXPOS, INCL LABORED BRTHG, CHEST PAINS, WEA KNESS &

CHEST TIGHTNESS. PLEURAL THICKENING, PLAQUES & EFFUSION ARE (SUPDAT)
Medical Cond Aggravated By Exposure: NONE SPECIFIED BY MANUFACTURER.
First Aid: INHAL: REMOVE TO FRESH AIR. IF BRTHG IS DFCLT, O*2 MAY BE ADMIN.
IF BRTHG HAS STOPPED, ADMIN ARTF RESP. CALL MD. SKIN: REMOVE ASBESTOS
SLIVERS PROMPTLY. IF "ASBESTOS CORN" DEVELS, SURG REMOVAL MAY BE REQD. EYE:
IRRIGATE GENTLY W/WATER FOR A T LEAST 15 MINS. REFER TO OPHTHALMOLOGIST TO
RULE OUT POSS OF DMG TO CORNEA/EYEBALL BY FIBERS. INGEST: CALL MD
IMMEDIATELY(FP N).NOTE TO MD: A MEDICAL

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Handling and Disposal
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Spill Release Procedures: AVOID BRTHG DUST. NOTIFY SAFETY PERS OF SPILL.
PERMIT

ONLY TRAINED CLEAN-UP PERS IN SPILL AREA. USE WET METHS/APPRVD VACUUM
CLEANING SYS TO PICK UP SPILLED MATLS. USE WATER/OTHER DUST SUPRESSANTS
WHERE SWEEPING IS UNAVOIDABLE. DO NOT STIR U P

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: BAGS, FRIABLE ASBESTOS, WASTE & SCRAP MATL SHOULD
BE DISP OF IN A MANNER WHICH WILL AVOID AIRBORNE CONCS OF ASBESTOS, SUCH AS
USE OF DUST-TIGHT TRASH BAGS/CNTNRS. SUCH CNTNRS SHOULD BE LABELED I/A/W
40CFR61.20. ASBESTOS IS ALSO CLASSIFIED A S

Handling And Storage Precautions: STORE ASBESTOS IN CLSD CNTNRS(DUST-TIGHT)
IN CLEAN, DRY, SECURE AREA. PROTECT CNTNRS FROM DMG. DO NOT OPEN CNTNRS IN
MANNER THAT CAN RELEASE

Other Precautions: BRTHG ASBESTOS DUST CAN CAUSE LUNG DMG & CANCER. RISK
OFLUNG CANCER IS GREATLY INCREASED FOR SMOKERS. DO NOT CREATE/BRTH
DUST,DRY-SWEEP/USE AIR HOSE FOR CLEANING, TAKE PROT EQUIP/CLTHG HOME. DO
FOLLOWRECOM WORK PRACS, WEAR APPRVD

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Fire and Explosion Hazard Information
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Extinguishing Media: USE MEDIA APPROPRIATE FOR SURROUNDING MATERIAL IN FIRE
SITUATION.

Fire Fighting Procedures: WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE
EQUIPMENT(FP N). AVOID MEDIA & PROCS THAT CAUSE AIRBORNE DUST.

Unusual Fire/Explosion Hazard: NONE SPECIFIED BY MANUFACTURER.

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Control Measures
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Respiratory Protection: WHERE ASBESTOS EXPOS IN EXCESS OF PEL IS ANTIC, WEAR
A NIOSH/MSHA APPRVD RESP, AS FOLLOWS: UP TO 10 TIMES THE PEL, HALF-MASK AIR
PURIFYING RESP W/HIGH-EFFICIENCY FILTERS; UP TO 50 TIMES PEL - FULL
FACEPIECE AIR-PURIFYING RESP W/HIGH

Ventilation: PROVIDE ADEQ EXHST VENT & CAPTURE FILTRATION TO REMOVE
ASBESTOS PARTICULATE FROM WORKPLACE & MINIMIZE ITS

Protective Gloves: IMPERVIOUS GLOVES(FP N).

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGS(FP N).

Other Protective Equipment: ANSI APPRVD EMER EYE WASH & DELUGE SHOWER(FP N).
FOR CONCS IN EXCESS OF OSHA PEL, SPEC CLTHG, SUCH AS COVERALLS,

Work Hygienic Practices: FOLLOW GOOD HOUSEKEEPING PRACTICES TO PREVENT
ACCUMULATION OF ASBESTOS-CNTNG DUSTS. AVOID INHAL OF ASBESTOS.

Supplemental Safety and Health: EXPLAN OF CARCIN:TO BE CARCINOGENIC.

OSHA: CFR VOL 29, PG 1910.1001, 1987: OSHA CANCER HAZARD. HUMAN: LUNG. EFTS
OF OVEREXP: NONDISABLING CNDTNS, SEEN SEPARATELY/TOGETHER, THAT HAVE BEEN
ASSOC W/PRLNGD ASBESTOS EXPOS. RISK OF LUNG CANCER IS GREATLY INCREASED
FOR THOSE WHO SMOKE CIGARETTES REG IN ADDTN

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Physical/Chemical Properties

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M.P/F.P Text: 1112F,600C
Spec Gravity: 2.45 (H*20=1)
Solubility in Water: VERY SLIGHT SOLUBLE
Appearance and Odor: WHITE FIBROUS W/NO ODOR.
Percent Volatiles by Volume: SUPDAT
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Reactivity Data

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Stability Indicator: YES
Stability Condition To Avoid: NONE.
Materials To Avoid: NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products: NONE.
Hazardous Polymerization Indicator: NO
Conditions To Avoid Polymerization: NOT RELEVANT.
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Toxicological Information

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Ecological Information
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MSDS Transport Information
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Regulatory Information
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Other Information
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HAZCOM Label
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Product ID: ASBESTOS
Cage: 3A730
Assigned IND: Y
Company Name: RESEARCH TRIANGLE INSTITUTE
Street: 3040 CORNWALLIS ROAD
PO Box: 12194
City: RESEARCH TRIANGLE PARK NC
Zipcode: 27709-5000
Health Emergency Phone: 919-541-6800
Label Required IND: Y
Date Of Label Review: 09/22/1995
Status Code: C
Label Date: 09/22/1995
Origination Code: G
Chronic Hazard IND: Y
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: WARNING
Respiratory Protection IND: YES
Health Hazard: Moderate
Contact Hazard: Moderate
Fire Hazard: None
Reactivity Hazard: None

Hazard And Precautions: ACUTE:INHAL:ANY DUST(INCLDG ASBESTOS) WHICH IS INHALED IN SUBSTANTIAL AMTS, MAY IRRIT RESP TRACT. EXTREME EXPOS CAN OVERWHELM NORM RESP DEFENSE MECHS & RSLT IN TEMP DFCLTY IN BRTHG. SKIN:ASBESTOS SPLINTERS MAY PENETRATE SKIN & CAUSE ASBESTO S "CORNS". EYE:MAY CAUSE IRRIT & ABRASIONS. CHRONIC:CANCER HAZARD. CNTNS ASBESTOS WHICH IS LISTED AS KNOWN CARCINOGEN(FP N). OVEREXP TO ASBESTOS HAS CAUSED DMG TO LUNGS(ASBESTOSIS) & MESOTHELIOMA OF PLEURA & PERITONEUM. SYMPS WHICH ARE USUA LLY NOT MANIFESTED 15-20 YEARS AFTER EXPOS, INCL LABORED BRTHG, CHEST PAINS, WEAK & CHEST TIGHTNESS. PLEURAL THICKENING, PLAQUES & EFFUSION ARE NONDISABLING.

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