

KNAUF FIBER GLASS
BLANKET

-- UNCURED FIBERGLASS INSUL, BLK UNCURED

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MSDS Safety Information
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MSDS Date: 05/12/1998
MSDS Num: CKKND
Product ID: UNCURED FIBERGLASS INSUL, BLK UNCURED BLANKET WITH FACING
MFN: 01
Responsible Party
Cage: 64591
Name: KNAUF FIBER GLASS
Address: 240 ELIZABETH ST
City: SHELBYVILLE IN 46176
Info Phone Number: 317-398-4434
Emergency Phone Number: 317-398-4434
Preparer's Name: KEVIN DONOHUE
Review Ind: Y
Published: Y

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Contractor Summary
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Cage: 64591
Name: KNAUF FIBER GLASS
Address: 240 ELIZABETH ST
City: SHELBYVILLE IN 46176
Phone: 317-398-4434

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Ingredients
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Cas: 65997-17-3
RTECS #: LK3651000
Name: FIBROUS GLASS; PEL: 15 MG/M3 TOTAL NUISANCE PARTICULATE, 5 MG/M3 RESP
NUISANCE PARTICULATE. BASED ON PRUDENCE & NOT SIGNIFICANT RISK, ACGIH
& KNAUF RECS A MAX EXPOS (SARA TITLE III)
% low Wt: 73.
% high Wt: 80.
ACGIH TLV: 1FIBER/CC

Cas: 25104-55-6
RTECS #: SL4600000
Name: PHENOL, POLYMER WITH FORMALDEHYDE AND UREA; (UREA EXTENDED PHENOLIC
RESIN
(UNCURED))
% low Wt: 17.
% high Wt: 22.

Cas: 7732-18-5
RTECS #: ZC0110000
Name: WATER
% low Wt: 3.
% high Wt: 6.

Cas: 50-00-0
RTECS #: LP8925000
Name: FORMALDEHYDE; 0.5 PPM (8 HR TWA ACTION LEVEL), 0.75 PPM (8 HR TWA), 2
PPM

(15 MIN. STEL) (MFR)
Percent by Wt: .2
OSHA PEL: see 1910.1048
ACGIH STEL: C0.37 MG/M3;C0.3 PPM
EPA Rpt Qty: 100 LBS
DOT Rpt Qty: 100 LBS

Cas: 108-95-2
RTECS #: SJ3325000
Name: PHENOL
Percent by Wt: .65
OSHA PEL: 19 MG/M3;5 PPM
ACGIH TLV: 19 MG/M3;5 PPM
ACGIH STEL: NOT ESTABLISHED
EPA Rpt Qty: 1000 LBS
DOT Rpt Qty: 1000 LBS

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Health Hazards Data
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Route Of Entry Inds - Inhalation: YES
Skin: YES
Ingestion: NO
Carcinogenicity Inds - NTP: YES
IARC: YES
OSHA: YES

Effects of Exposure: ACUTE: INHAL: UNCURED BINDER & CURING PROCESS MAY
PRDCE VAPS (INCL AMMONIA & FORMALDEHYDE) WHICH MAY CAUSE IRRIT &
INFLAMM OF EYES & MUC MEMB OF RESP TRACT. CHRONIC: THERE ARE CONFIRMED
RPTS OF CONT DERM. A 1987 EPIDEMIOLOGICAL STUDY OF MOR E THAN 16,000 U.S.
MAN-MADE VITREOUS FIBER MFG WORKERS HAS SHOWN NO STATISCALLY SIGNIFICANT
INCR RISKS OF MALIGNANT/NONMALIGNANT DISEASES. A 1990 UPDATE OF THIS STUDY
RPTD SM, STATISTICALLY SIGNIFICANT INCR IN RESP CANCER AMONG WORKERS WHEN
COMPARED W/POPULATIONS IN THEIR COMMUNITIES. CONFOUNDING FACTORS (SUCH AS
SMKNG, EXPOS TO OTHER HAZ MATLS ETC) (EFTS OF OVEREXP)

Explanation Of Carcinogenicity: FORMALDEHYDE: IARC MONOGRAPHS, SUPPLEMENT,
VOL 7, PG 211, 1987: GROUP 2A. NTP 8TH ANNUAL REPORT ON CARCINS, 1998:
REASONABLY ANTICIPATED TO BE HUMAN CARCINOGEN. OSHA REGULATED.

Signs And Symptions Of Overexposure: HLTH HAZ: ARE THOUGHT TO BE RESPONSIBLE
FOR THIS SM APPARENT INCR, & EXPANDED STUDY IS CURRENTLY UNDERWAY TO
INVESTIGATE OTHER POSS CONTRIBUTING FACTORS. SKIN: CONT W/FIBROUS GLASS MAY
CAUSE TEMPORARY IRRIT. CONT W/UNCURED BINDER MAY CAUSE CHEM/ALLERGIC DERM.
EYE: UNCURED BINDER MAY CAUSE CORNEAL DMG. SIGNS & SYMPS OF OVEREXP:
PRLNGD EXPOS TO/INHAL OF VAPS FROM UNCURED BINDER MAY CAUSE IRRIT IN EYES,
NOSE, MOUTH AND/OR THROAT. FIBROUS GLASS IS MECH IRRITANT FOR SKIN, EYES,
& UPPER RESP SYS TARGET ORGANS: RESP SYS INCLUDING THE LUNGS. (SUPDAT)

Medical Cond Aggravated By Exposure: PRE-EXISTING UPPER RESPIRATORY AND LUNG
DISEASES MAY BE AGGRAVATED BY DUST AND/OR VAPORS FROM UNCURED BINDER.

First Aid: INGEST: CALL MD IMMEDIATELY (FP N). SKIN: FLUSH W/COPIOUS AMOUNTS
OF WATER. CALL MD. (FP N). INHAL: REMOVE TO FRESH AIR. EYE CONT: FLUSH
W/COPIOUS QTYS OF WATER FOR AT LST 15 MINS AND CONSULT PHYS.

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Handling and Disposal
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Spill Release Procedures: CLEAN ALL WASTE AND/OR SCRAP MATERIAL FROM
EQUIPMENT,
COUNTER TOPS, FLOORS, ETC BEFORE BINDER MATERIAL HARDENS. UNCURED BINDER IS
WATER SOLUBLE. AS BINDER CURES IT BECOMES LESS SOLUBLE IN WATER &

REQUIRES THE USE OF ORGANIC SOLVENTS FOR CLEAN UP.
Waste Disposal Methods: DISPOSE OF MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
Handling And Storage Precautions: STORAGE OF PRODUCT IN HOT, CONFINED AREAS WITH LITTLE AIR CIRCULATION PROMOTES POLYMERIZATION OF THE PHENOLIC RESIN BINDER.
Other Precautions: POLYMERIZATION LIBERATES HEAT. STORE MATL AT TEMPS AS LOW AS POSSIBLE (ABOVE 32F) IN ORDER TO RETARD PREMATURE CURING AND PROLONG USEFUL STORAGE LIFE. KEEP PLASTIC COVERING TIGHTLY SEALED TO PREVENT LOSS OF MOISTURE.

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Fire and Explosion Hazard Information
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Flash Point: =93.3C, 200.F
Extinguishing Media: WATER, FOAM, DRY CHEMICAL, CO*2.
Fire Fighting Procedures: FIBROUS GLASS IS NONFLAMMABLE. UNCURED BINDER HAS FLASH POINT IN EXCESS OF 200F. USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N). DENSE SMOKE MAY LIMIT VISIBILITY IN ENCLOSED AREAS.
Unusual Fire/Explosion Hazard: RESIN WILL BURN CAUSING DENSE ACRID SMOKE. FACINGS MAY BURN CAUSING DENSE ACRID SMOKE.

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Control Measures
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Respiratory Protection: THESE PRODS MAY RELEASE AMMONIA AND/OR FORMALDEHYDE WHICH ARE IRRIT TO EYES, NOSE, & THROAT DURING INITIAL HEAT-UP. FOLLOWING RECS WILL PROVIDE MIN DEGREE OF RESP PROT FOR GIVEN WORK ENVIRON. THERE RECS ARE BASED ON VOLUNTARY PERMISSIBLY EXP OS LEVEL (PEL), CURRENT OSHA FORMALDEHYDE STD (29 CFR 1910.1048(G)(2)), NIOSH CERTIFICATION PROGRAM (ECOLOGICAL INFO)
Ventilation: USE SUFFICIENT NATURAL/MECH VENT TO MAINTAIN DUST & VAP(FUME) LEVELS BELOW REC VALUES. SHOPS THAT MOLD UNCURED FIBER GLASS SHOULD USE LOC (TRANSPORT INFO)
Protective Gloves: LEATHER/COTTEN GLOVES SHOULD BE WORN TO PVNT (TRANSPORT INFO)
Eye Protection: ANSI APPROVED CHEMICAL WORKERS GOGGLES (FP N).
Other Protective Equipment: EYE WASH & DELUGE SHOWER MEETING ANSI DESIGN CRITERIA (FP N). LONG-SLEEVED, LOOSE FITTING CLTHG IS REC WHEN HNDLG MATL TO MINIMIZE SKIN CONT.
Work Hygienic Practices: WASH WITH SOAP AND WATER AFTER HANDLING. WASH WORK CLOTHES SEPARATELY AND RINSE WASHER.
Supplemental Safety and Health: EFTS OF OVEREXP: HAZARD SUMMARY: THE IARC HAS CLASSIFIED FIBER GLASS WOOL AS POSS CANCER CAUSING AGENT TO HUMANS WHEN INHALED IN LUNGS. THIS CLASSIFICATION WAS SUBSTANTIALLY BASED ON EXPERIMENTS IN WHICH FIBER GLASS WOOL WAS INJECTED/IMPLAN TED IN ANIMALS. HOWEVER, LG SCALE HUMAN MORTALITY STUDIES OF U.S. (OTHER INFO)

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Physical/Chemical Properties
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Appearance and Odor: YELLOW OR BLACK FIBROUS PRODUCT WITH PHENOL-FORMALDEHYDE ODOR. (TRANSPORT INFO)

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Reactivity Data
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Stability Indicator: YES
Materials To Avoid: HYDROFLUORIC ACID WILL DISSOLVE THE GLASS. ACIDS OR BASES WILL CATALYZE POLYMERIZATION OF THE PHENOLIC RESIN BINDER.
Hazardous Polymerization Indicator: NO

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Toxicological Information
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Toxicological Information: OTHER INFO: OSHA BELIEVES RISK IS NOT THREAT TO YOUR HLTH AS LONG AS EXPOS TO FIBER GLASS WOOL IS <1 FIBER/CUBIC CENTIMETER (CC) TWA (8 HR TIME WEIGHTED AVERAGE). FIBER GLASS WOOL EXPOS IN HOME, COMMERCIAL BUILDINGS, & MFG FACILITIES ARE G ENERALLY FOUND TO BE WELL BELOW 1 FIBER/CC. INSTALLERS & FABRICATORS SHOULD BE AWARE OF THEIR EXPOS LEVELS & TAKE APPROP ACTIONS IF NEEDED PER REC WORK PRACTICES. KNAUF STRONGLY RECOMMENDS FOLLOWING ALL SAFE WORK PRACTICES WHILE WORKING WI TH AND/OR INSTALLING FIBER GLASS WOOL PRODUCTS.

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Ecological Information
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Ecological: RESP PROT: FOR RESP PROT, NIOSH IMMED DANGEROUS TO LIFE/HLTH (IDLH)LEVEL FOR AMMONIA. UP TO 10X PEL FOR FORMALDEHYDE, & UP TO 50% VOLUNTARY PEL: NIOSH APPRVD FULL FACE RESP W/FORMALDEHYDE CARTRIDGE/CANISTERS & DUST/MIST PREFILTERS. UP TO I DLH FOR FORMALDEHYDE: NIOSH APPRVD FULL FACE MASK W/CHIN STYE/CHEST/BACK MOUNTED TYPE INDUST SIZE CANISTER SPECIFICALLY APPRVD FOR PROT AGAINST FORMALDEHYDE. UP TO IDLH FOR AMMONIA UP TO 50% VOLUNTARY PEL: NIOSH APPRVD FULL FACE RESP W/AMMO NIA CARTRIDGES & CANISTER, AND A DUST/MIST PREFILTER.

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MSDS Transport Information
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Transport Information: VENT: EXHAUST VENTILATION OVER THE PROCESS. PROT GLOVES: CONTENT & IRRIT. IF THERE IS PROLONGED CONTACT WITH WET, UNCURED PRODUCT,GLOVES (BUTYL RUBBER & NITRILE) SHOULD BE USED TO PREVENT SKIN CONTACT.APEAR/ODOR: SOME PRODUCTS HAVE GLAS S/POLYESTER WOVEN OR NON-WOVEN MAT FACING.

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Regulatory Information
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Federal Regulatory Information: AND NFPA HAZARD RATING: CATEGORY: ACUTE HEALTH,: 1, NFPA: 1. CATEGORY: FLAMMABILITY. : 0, NFPA: NA/1 (FACING, PACKAGING).
CATEGORY: REACTIVITY. : 0, NFPA: 0.

State Regulatory Information: CALIFORNIA PROP 65 STATEMENT: FIBER GLASS WOOL HAS BEEN CLASSIFIED AS A POSSIBLE CARCINOGEN IF INHALED.

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Other Information
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Other Information: SUPDAT: & EUROPEAN FIBER GLASS WOOL FACTORY WORKERS DID NOT PROVIDE CONCLUSIVE EVID THAT FIBER GLASS WOOL CAUSED CANCER IN HUMANS. HOWEVER, IARC DOES REGARD IT PRUDENT TO TREAT ANY MATL FOR WHICH THERE IS SUFFICIENT EVID OF CARCIN IN ANIMA LS AS IF IT WERE POSS HUMAN CARCIN. THEREFORE, IARC HAS CLASSIFIED RESPIRABLE DUST FROM PROD IN GROUP 2B(POSSIBLY CARCIN). EVEN THROUGH PRESENT EPIDEMIOLOGICAL DATA IS NOT CONCLUSIVE, OSHA'S INTERPRETATION OF IT REQS THAT WARNING LBL BE PL ACED ON PROD. WARNING IDENTIFIES POSS HAZ WHILE NOT IDENTIFYING DEGREE OF RISK. (TOX INFO)

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HAZCOM Label
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Cage: 64591
Company Name: KNAUF FIBER GLASS

Street: 240 ELIZABETH ST
City: SHELBYVILLE IN
Zipcode: 46176
Health Emergency Phone: 317-398-4434
Label Required IND: Y
Date Of Label Review: 05/05/2000
Status Code: A
Origination Code: G

Hazard And Precautions: ACUTE: INHAL: UNCURED BINDER & CURING PROCESS MAY
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