ATTN: SAFETY DIRECTOR
UNIVERSITY OF WISCONSIN WHITewater
P.O. BOX 296
WHitewater WI 53190-0296

DATE: 05/03/93
CUST#: 523216
PO#: Q013717

MATERIAL SAFETY DATA SHEET

PRODUCT #: 31069-7
CAS #: 9004-34-6
NAME: CELLULOSE POWDER, CA. 20 MICRON

SYNONYMS
AVICEL * BETAMYLLOSE * ARBOCEL * ARBOCEL BC 200 * ARBOCELL B 600/30 *
AVICEL * AVICEL 102 * AVICEL PH 101 * AVICEL PH 105 *
CELLUDEX M-X * ALPHA-CELLULOSE * CELLULOSE 248 * CELLULOSE (ACGIH, OSHA) *
CELLULOSE Crystalline * CELUFIL * CEPO * CEPO CFM * CEPO S 20 * CEPO S 40 *
CHRMDIA CC 31 * CHROMEDIA CF 11 * CUPRICCELLULOSE * ELCEMA P 150 *
ELCEMA P 250 * ELCEMA P 500 * ELCEMA P 1000 * FRESENTUS D 6 *
HEWETEN 10 * HYDROXYCELLULOSE * KINGCOT * LA 01 * MN-CELLULOSE *
ONONEZUKA P 50C * PYROCELLULOSE * RAYOPHONE * RAYWEB Q * REXCEL *
SIGMACELL * SOKA-FIL * SOLKA-FLOC * SOLKA-FLOC BW * SOLKA-FLOC BW 20 *
SOLKA-FLOC BW 400 * SOLKA-FLOC BW 200 + SOLKA-FLOC BW 2030 *
SPARTOSE 0.22 * SULFITE CELLULOSE * TOMOFAN * TUNCIN * WHATMAN CC-31 *

RCS #: FJ5691460
CELLULOSE

REVIEWS, STANDARDS, AND REGULATIONS
ACGIH TLV-TWA 10 MG/M3 TOTAL DUST 051NA8 5.113.86
OSHA PEL 28H TWA 15 MG/M3 TOTAL DUST FERAC 54,2923.99
OSHA PEL 28H TWA 5 MG/M3 RESPIRABLE FRACTION FERAC 54,2923.99
OSHA PEL FINAL 28H TWA 15 MG/M3 TOTAL DUST FERAC 54,2923.99
OSHA PEL FINAL 28H TWA 5 MG/M3 RESPIRABLE FRACTION FERAC 54,2923.99
DEU-AUSTRIA: TWA 10 MG/M3 JANUARY 1993
DEU-BELGIUM: TWA 10 MG/M3 JANUARY 1993
DEU-FRANCE: TWA 10 MG/M3 JANUARY 1993
DEU-GERMANY: TWA 2 MG/M3 STEL MG/M3: SKIN JANUARY 1993
DEU-SWITZERLAND: TWA 6 MG/M3 JANUARY 1993
DEU-THE NETHERLANDS: TWA 10 MG/M3 JANUARY 1993
DEU-UNITED KINGDOM: TWA 10 MG/M3 STEL 20 MG/M3 JANUARY 1993 (TOTAL DUST)
DEU-UNITED KINGDOM: TWA 5 MG/M3 JANUARY 1993 (RESPIRABLE DUST)
DEU-IN BULGARIA, COLOMBIA, JORDAN, KOREA, NEW ZEALAND, SINGAPORE, VIETNAM: CHECK ACGIH TLV
NIOSH REL TO CELLULOSE RESPIRABLE FRACTION AIR: 10H TWA 5 MG/M3 NIOSH* DHHS #92-100.92
NIOSH REL TO CELLULOSE TOTAL DUST AIR: 10H TWA 10 MG/M3 NIOSH* DHHS #92-100.92
NIOSH REL TO CELLULOSE TOTAL DUST: AIR: 10H TWA 10 MG/M3 NIOSH* DHHS #92-100.92
NOES 1993: MJD X5049; NTS 1; TNF 301; NOS 2; TNF 447; TFE 179
EPA TSCA CHEMICAL INVENTORY JUNE 1990
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 1993

CONTINUED ON NEXT PAGE
MATERIAL SAFETY DATA SHEET

PRODUCT #: NAME: CELLULOSE, POWDER, CA. 20 MICRON

- - - TOXICITY HAZARDS - - -

NIOSH ANALYTICAL METHODS: SEE NUISANCE DUST, TOTAL, 0500; NUISANCE DUST, RESPIRABLE, 0600.

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

- - - HEALTH HAZARD DATA - - -

ACUTE EFFECTS
MAY BE HARMFUL IF INHALED.
MAY CAUSE EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.

FIRST AID
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.
FLUSH SKIN WITH WATER.
IF INHALED, REMOVE TO FRESH AIR.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.

- - - PHYSICAL DATA - - -

APPEARANCE AND ODOR
WHITE POWDER

- - - FIRE AND EXPLOSION HAZARD DATA - - -

EXTINGUISHING MEDIA
WATER SPRAY.
CARBON DIOXIDE, CRY CHEMICAL POWDER OR APPROPRIATE FOAM.

SPECIAL FIRE-FIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

CONTINUED ON NEXT PAGE
PRODUCT #:  
NAME: CELLULOSE, POWDER, CA. 20 MICRON
--- FIRE AND EXPLOSION HAZARD DATA ---
THIS MATERIAL, LIKE MOST MATERIALS IN POWDER FORM, IS CAPABLE OF CREATING A DUST EXPLOSION.
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.
--- REACTIVITY DATA ---

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
CARBON MONOXIDE, CARBON DIOXIDE
--- SPILL OR LEAK PROCEDURES ---
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER GLOVES AND HEAVY RUBBER GLOVES.
SWEEP UP DUST WITH A BROOM IN A WELL VENTILATED AREA AND HOLD FOR SAFE DISPOSAL.
AVOID Raising DUST.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
WASTE DISPOSAL METHOD
DISSOLVE OR MIX THE MATERIAL WITH A COMPOSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.
--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---
WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
SAFETY SHOWER AND EYE BATH.
MECHANICAL EXHAUST REQUIRED.
DO NOT BREATHE DUST.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.
LABEL PRECAUTIONARY STATEMENTS.
CAUTION:
AVOID CONTACT AND INHALATION.
--- ADDITIONAL PRECAUTIONS AND COMMENTS ---
CONTINUED ON NEXT PAGE
PRODUCT #: 
NAME: CELLULOSE, POWDER, CA. 20 MICRON
--- ADDITIONAL PRECAUTIONS AND COMMENTS ---

ADDITIONAL INFORMATION

CELLULOSE AND ITS DERIVATIVES MAY REACT VIGOROUSLY WITH CALCIUM OXIDE, BLEACHING POWDER, PERCHLORATES, PERCHLORIC ACID, SODIUM CHLORATE, FLUORINE, NITRIC ACID, SODIUM NITRITE AND SODIUM NITRATE.

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