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DATE 08/13/96
CUST#: 938609
PO#: B15436

M A T E R I A L S A F E T Y D A T A S H E E T

PAGE 1

SECTION 1. - - - - - CHEMICAL IDENTIFICATION - - - - -

CATALOG #: 19997-4
NAME: ALUMINUM OXIDE, ACTIVATED, NEUTRAL,
BROCKMANN I, STD GRADE, CA. 150 MESH

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

CAS #: 1344-28-1
MF: AL2O3
EC NO: 215-691-6

SYNONYMS

A 1 (SORBENT) * ABRAMANT * ABRAMAX * ABRAREX * ABRASIT * ACTIVATED
ALUMINUM OXIDE * A1-3945 E 1/16" * A1-4126 E 1/16" * ALCOA F 1 *
ALMITE * ALON * ALON C * ALOXITE * ALUMINA * ALPHA-ALUMINA * GAMMA-
ALUMINA * BETA-ALUMINA * ALPHA-ALUMINA (ACGIH:OSHA) * ALUMINITE 37 *
ALUMINIUM OXIDE * ALUMINUM OXIDE * ALPHA-ALUMINUM OXIDE * BETA-
ALUMINUM OXIDE * GAMMA-ALUMINUM OXIDE * ALUMINUM SESQUIOXIDE *
ALUMITE * ALUMITE (OXIDE) * ALUNDUM (OSHA) * ALUNDUM 600 * A1-0109 P *
A1-3916 P * A1-3970 P * A1-1401 P(MS) * A1-0104 T 3/16" * A1-1404 T
3/16" * A1-3438 T 1/8" * A1-3980 T 5/32" * A1-4028 T 3/16" *
BROCKMANN, ALUMINUM OXIDE * CAB-O-GRIP * CATAPAL S * CATAPAL SB
ALUMINA * COMPALOX * CONOPAL * DIADUR * DIALUMINUM TRIOXIDE * DISPAL *
DISPAL ALUMINA * DISPAL M * DOTMENT 324 * DOTMENT 358 * DURAL *
EXOLON * EXOLON XW 60 * F 360 (ALUMINA) * FASERTON * FASERTONERDE * G
O (OXIDE) * G 2 (OXIDE) * GK (OXIDE) * HYPALOX II * JUBENON R * KA
101 * KETJEN B * KHP 2 * LA 6 * LUCALOX * LUDOX CL * MARTOXIN *
MICROGRIT WCA * PORAMINAR * PS 1 * PS 1 (ALUMINA) * Q-LOID A 30 * RC
172DBM *

SECTION 3. - - - - - HAZARDS IDENTIFICATION - - - - -

LABEL PRECAUTIONARY STATEMENTS

HARMFUL
HARMFUL BY INHALATION.
IRRITATING TO RESPIRATORY SYSTEM.
TARGET ORGAN(S):
LUNGS
BONES
DO NOT BREATHE DUST.
IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE
RESPIRATORY EQUIPMENT.
WEAR SUITABLE PROTECTIVE CLOTHING.
PROTECT FROM MOISTURE.

CONTINUED ON NEXT PAGE

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PAGE 2

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BROCKMANN I, STD GRADE, CA. 150 MESH

SECTION 4. - - - - - FIRST-AID MEASURES - - - - -

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
WASH CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -

EXTINGUISHING MEDIA
NONCOMBUSTIBLE.

USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

SPECIAL FIREFIGHTING PROCEDURES

FOR FIRES INVOLVING THIS MATERIAL, DO NOT ENTER ANY ENCLOSED OR CONFINED FIRE SPACE WITHOUT PROPER PROTECTIVE EQUIPMENT. THIS MAY INCLUDE SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST THE HAZARDOUS EFFECTS OF THE NORMAL PRODUCTS OF COMBUSTION OR OXYGEN DEFICIENCY.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES - - - - -

WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
AVOID RAISING DUST.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. - - - - - HANDLING AND STORAGE - - - - -

REFER TO SECTION 8.

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - - -

CHEMICAL SAFETY GOGGLES.
COMPATIBLE CHEMICAL-RESISTANT GLOVES.
MECHANICAL EXHAUST REQUIRED.

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PAGE 3

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NIOSH/MSHA-APPROVED RESPIRATOR IN NONVENTILATED AREAS AND/OR FOR
EXPOSURE ABOVE THE ACGIH TLV.
SAFETY SHOWER AND EYE BATH.
DO NOT BREATHE DUST.
AVOID CONTACT AND INHALATION.
WASH THOROUGHLY AFTER HANDLING.
HARMFUL DUST.
IRRITANT.
KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

APPEARANCE AND ODOR
WHITE POWDER

PHYSICAL PROPERTIES
SPECIFIC GRAVITY: 3.970

SECTION 10. - - - - - STABILITY AND REACTIVITY - - - - -

STABILITY
STABLE.

INCOMPATIBILITIES
STRONG ACIDS
STRONG BASES
CHLORINE TRIFLUORIDE
ETHYLENE OXIDE
HALOCARBONS
OXYGEN DIFLUORIDE
SODIUM NITRATE
VINYL ACETATE
PROTECT FROM MOISTURE.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
HYDROGEN CHLORIDE GAS
PHOSGENE GAS

HAZARDOUS POLYMERIZATION
WILL NOT OCCUR.

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -

ACUTE EFFECTS

CONTINUED ON NEXT PAGE

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HARMFUL IF INHALED.
MAY BE HARMFUL IF SWALLOWED.
MAY CAUSE EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER
RESPIRATORY TRACT.
EXPOSURE CAN CAUSE:
COUGHING, CHEST PAINS, DIFFICULTY IN BREATHING.
GASTROINTESTINAL DISTURBANCES

CHRONIC EFFECTS
PROLONGED EXPOSURE CAN CAUSE:
DAMAGE TO THE LUNGS
TARGET ORGAN(S):
LUNGS
BONES

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

ECS #: BD1200000
ALUMINUM OXIDE (2:3)

TARGET ORGAN DATA
LUNGS, THORAX OR RESPIRATION (TUMORS)
TUMORIGENIC (NEOPLASTIC BY RTECS CRITERIA)
TUMORIGENIC (EQUIVOCAL TUMORIGENIC AGENT BY RTECS CRITERIA)
TUMORIGENIC (TUMORS AT SITE OF APPLICATION)
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR
COMPLETE INFORMATION.

SECTION 12. ----- ECOLOGICAL INFORMATION -----

DATA NOT YET AVAILABLE.

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF
THIS MATERIAL.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. ----- TRANSPORT INFORMATION -----

CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION. ®

SECTION 15. ----- REGULATORY INFORMATION -----

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EUROPEAN INFORMATION

HARMFUL

R 20

HARMFUL BY INHALATION.

R 37

IRRITATING TO RESPIRATORY SYSTEM.

S 22

DO NOT BREATHE DUST.

S 38

IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE
RESPIRATORY EQUIPMENT.

S 36

WEAR SUITABLE PROTECTIVE CLOTHING.

REVIEWS, STANDARDS, AND REGULATIONS

DEL=MAK

ACGIH TLV-TWA 10 MG(AL)/M3, TOTAL DUST

85INA8 6,48,91

MSHA STANDARD:NUISANCE PARTICULATES

DTLVS* 3,9,71

OSHA PEL (GEN INDU):8H TWA 15 MG/M3, TOTAL DUST

CFRGBR 29,1910.1000,94

OSHA PEL (GEN INDU):8H TWA 5 MG/M3, RESPIRABLE FRACTION

CFRGBR 29,1910.1000,94

OSHA PEL (CONSTRUC):8H TWA 15 MG/M3, TOTAL DUST

CFRGBR 29,1926.55,94

OSHA PEL (CONSTRUC):8H TWA 5 MG/M3, RESPIRABLE FRACTION

CFRGBR 29,1926.55,94

OSHA PEL (SHIPYARD):8H TWA 15 MG/M3, TOTAL DUST

CFRGBR 29,1915.1000,93

OSHA PEL (SHIPYARD):8H TWA 5 MG/M3, RESPIRABLE FRACTION

CFRGBR 29,1915.1000,93

DEL-AUSTRALIA:TWA 10 MG/M3 JAN93

DEL-BELGIUM:TWA 10 MG/M3 JAN93

DEL-DENMARK:TWA 10 MG/M3 JAN93

DEL-FRANCE:TWA 10 MG/M3 JAN93

DEL-GERMANY:TWA 6 MG/M3 JAN93

DEL-THE NETHERLANDS:TWA 10 MG/M3 JAN93

DEL-RUSSIA:STEL 4 MG/M3 JAN93

DEL-SWITZERLAND:TWA 6 MG/M3 JAN93

DEL-UNITED KINGDOM:TWA 10 MG/M3;STEL 20 MG/M3 JAN93

DEL IN BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV

DEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV

NOHS 1974: HZD 20265; NIS 267; TNF 40757; NOS 158; TNE 513250

NOES 1983: HZD X3152; NIS 3; TNF 117; NOS 11; TNE 1834; TFE 116

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NOES 1983: HZD X5459; NIS 27; TNF 957; NOS 19; TNE 11287; TFE 899
NOES 1983: HZD X5758; NIS 136; TNF 12712; NOS 69; TNE 172759; TFE 7087
NOES 1983: HZD X9687; NIS 30; TNF 1814; NOS 27; TNE 27669; TFE 2616
NOES 1983: HZD 20265; NIS 333; TNF 76124; NOS 188; TNE 1345787; TFE 147525

EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, APRIL 1996
NIOSH ANALYTICAL METHOD, 1994: ALUMINUM AND COMPOUNDS, AS AL, 7013

SECTION 16. - - - - - OTHER INFORMATION - - - - -

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