



chemists helping chemists in research & industry

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DATE: 05/06/94  
CUST#: 523216  
PO#: UND-435595

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 - - - - -

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

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

CAS #: 1344-20-1  
MF: AL2O3

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 \* 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" \* A1-3433 T 1/8" \* A1-3980 T 5/32" \* A1-4028 T 3/16" \*  
BROCKMANN, ALUMINUM OXIDE \* CAB-D-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 \* LUDDOX CL \* MARTOXIN \*  
MICROGRIT WCA \* PORAMINAR \* PS 1 \* PS 1 (ALUMINA) \* Q-LOID A 30 \* RC  
I72DBM \*

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

LABEL PRECAUTIONARY STATEMENTS

HARMFUL  
HARMFUL BY INHALATION.  
IRRITATING TO RESPIRATORY SYSTEM.  
DO NOT BREATHE DUST.  
IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE  
RESPIRATORY EQUIPMENT.  
WEAR SUITABLE PROTECTIVE CLOTHING.

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

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF  
WATER FOR AT LEAST 15 MINUTES.

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

PAGE 2

PRODUCT #: 199974  
MF: AL203

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FLUSH SKIN WITH WATER.  
IF INHALED, REMOVE TO FRESH AIR. IF BREATHING BECOMES DIFFICULT,  
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.

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.  
COMBATIBLE CHEMICAL-RESISTANT GLOVES.  
MECHANICAL EXHAUST REQUIRED.  
NIOSH/MSHA-A PPROVED RESPIRATOR IN NONVENTILATED AREAS AND/OR FOR  
EXPOSURE ABOVE THE ACGIH TLV.  
SAFETY SHOWER AND EYE BATH.  
DO NOT BREATHE DUST.

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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 ODDR  
WHITE POWDER  
SPECIFIC GRAVITY: 3.970

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

INCOMPATIBILITIES  
STRONG ACIDS  
STRONG BASES  
PROTECT FROM MOISTURE.  
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS  
NATURE OF DECOMPOSITION PRODUCTS NOT KNOWN.

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

ACUTE EFFECTS  
HARMFUL IF INHALED.  
MAY CAUSE EYE IRRITATION.  
MAY CAUSE SKIN IRRITATION.  
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER  
RESPIRATORY TRACT.  
PROLONGED EXPOSURE CAN CAUSE:  
DAMAGE TO THE LUNGS  
NEUROTOXIC EFFECTS

RTECS NO: BD1200000  
ALUMINUM OXIDE (2:3)  
TARGET ORGAN DATA  
LUNGS, THORAX OR RESPIRATION (TUMORS)  
TUMORIGENIC (NEOPLASTIC BY RTECS CRITERIA)

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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 -----  
BURY IN A LANDFILL SITE APPROVED FOR THE DISPOSAL OF CHEMICAL  
AND HAZARDOUS WASTES.  
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. ----- TRANSPORT INFORMATION -----  
CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

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

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-TWA 10 MG/M3, TOTAL DUST 85INAB 5,21,86  
MSHA STANDARD: NUISANCE PARTICULATES  
DTLVS\* 3, 9, 71  
OSHA PEL: 8H TWA 15 MG/M3, TOTAL DUST  
FEREAC 54,2923,89  
OSHA PEL: 8H TWA 5 MG/M3, RESPIRABLE FRACTION  
FEREAC 54,2923,89  
OSHA PEL FINAL: 8H TWA 10 MG/M3, TOTAL DUST  
FEREAC 54,2923,89  
OSHA PEL FINAL: 8H TWA 5 MG/M3, RESPIRABLE FRACTION  
FEREAC 54,2923,89  
DEL-AUSTRALIA: TWA 10 MG/M3 JANUARY 1993  
DEL-BELGIUM: TWA 10 MG/M3 JANUARY 1993  
DEL-DENMARK: TWA 10 MG/M3 JANUARY 1993  
DEL-FRANCE: TWA 10 MG/M3 JANUARY 1993  
DEL-GERMANY: TWA 6 MG/M3 JANUARY 1993

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DEL-THE NETHERLANDS: TWA 10 MG/M3 JANUARY 1993  
DEL-RUSSIA: STEL 4 MG/M3 JANUARY 1993  
DEL-SWITZERLAND: TWA 6 MG/M3 JANUARY 1993  
DEL-UNITED KINGDOM: TWA 10 MG/M3; STEL 20 MG/M3 JANUARY 1993  
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA, 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  
EPA TSCA CHEMICAL INVENTORY, JUNE 1993  
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, SEPTEMBER 1993  
NIOSH ANALYTICAL METHODS: SEE NUISANCE DUST, TOTAL, 0500; NUISANCE  
DUST, RESPIRABLE, 0600;  
NIOSH ANALYTICAL METHODS: SEE ALUMINUM, 7013

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

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