



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.

CONTINUED ON NEXT PAGE

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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

NAME: ALUMINUM OXIDE, ACTIVATED, NEUTRAL,
BROCKMANN I, STD GRADE, CA. 150 MESH

CUST#: 523216
PO#: UND-435595

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	85INA8 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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