

Bayville Chemical Supply Company Inc.

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SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION Aluminum oxide, powder, pieces and sputter targets

MANUFACTURER NAME AND ADDRESS:

TELEPHONE NUMBERS:

 Bayville Chemical Supply Company Inc.
 CHEMTEL
 (800) 255-3928 or (813) 248-0585

70-G East Jefryn Boulevard

Deer Park, NY 11729 USA Local Poison /Emergency 911

UPC/EAN: 215-691-6

SYNONYMS: Aluminum oxide; alumina; A 1 (sorbent); A1-0109P; abrarex; activated aluminum oxide; alcoa F 1; almite; alon; aluminum sesquioxide; alumite; alundum; brockmann, aluminum oxide; cab-o-grip; compalox; dialuminum trioxide; dispal; dotment 324; faserton; G 2 (oxide); KHP 2; lucalox; microgrit WCA; PS 1; RC 172DBM.

CHEMICAL FAMILY: Metal oxide

DOT HAZARD LABEL: Not regulated by DOT

FORMULA: Al₂O₃

MOLECULAR WEIGHT: 101.96

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION Aluminum oxide, powder, pieces and sputter targets

HAZARDOUS COMPONENTS (CHEMICAL NAME)

NAME: Aluminum oxide

<u>CAS #:</u> 1344-28-1 <u>PERCENTAGE:</u> 0.0 -100.0 %

RTECS #: BD1200000

OSHA PEL: 15 mg/m3 ACGIH TLV: 10 mg/m3

OTHER LIMITS: Resp:5 mg/m3

SEC.302 (EHS): No **SEC.304 RQ:** No

<u>SEC.313:</u> Yes

NAME: (See SECTION 16-Other Information)

<u>CAS #:</u> <u>1344-28-1</u> <u>PERCENTAGE:</u> 0.0 -100.0 %

RTECS #: NA

OSHA PEL: No data. ACGIH TLV: No data.

OTHER LIMITS: No data.

SEC.302 (EHS): No **SEC.304 RQ:** No

SEC.313: No

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS Aluminum oxide, powder, pieces and sputter targets

PHYSICAL STATES: [] Gas , [] Liquid , [X] Solid

 BOILING POINT:
 2977.00 C (5390.6 F)

 MELTING POINT:
 2050.00 C (3722.0 F)

 SPECIFIC GRAVITY (WATER = 1):
 4 at 20.0 C (68.0 F)

DENSITY: No data.

VAPOR PRESSURE (VS. AIR OR MM HG): 1 mm at 2158.0 C (3916.4 F)

VAPOR DENSITY (VS. AIR = 1):

EVAPORATION RATE (VS BUTYL ACETATE=1):

SOLUBILITY IN WATER:

No data.

insoluble

OTHER SOLUBILITY NOTES: Soluble in hot NaOH

PERCENT VOLATILE:

PH:

N.A.

No data.

APPEARANCE AND ODOR: White powder, no odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA Aluminum oxide, powder, pieces and sputter targets

FLASH PT: N.A. METHOD USED: No data. EXPLOSIVE LIMITS: LEL: NA UEL: NA

EXTINGUISHING MEDIA

Non-combustible

USE: Not applicable. Use suitable extinguishing media for surrounding materials and type of fire.

SPECIAL FIRE FIGHTING PROCEDURES

Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Aluminum oxide may have an exothermic reaction, above 200C, with halocarbon vapors and may produce toxic hydrochloric acid and phosgene.

SECTION V - REACTIVITY DATA Aluminum oxide, powder, pieces and sputter targets

STABILITY: Unstable [] Stable [X]
CONDITIONS TO AVOID - INSTABILITY

None

INCOMPATIBILITY - MATERIALS TO AVOID

Chlorine trifluoride, ethylene oxide, halocarbons, oxygen difluoride, sodium nitrate and vinyl acetate.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Aluminum, hydrochloric acid and phosgene

<u>HAZARDOUS POLYMERIZATION:</u> Will occur [] Will not occur [X] CONDITIONS TO AVOID - HAZARDOUS POLYMERIZATION

None

SECTION VI - HEALTH HAZARD DATA Aluminum oxide, powder, pieces and sputter targets

ROUTE(S) OF ENTRY: Inhalation? Yes , Skin? No , Eyes? No , Ingestion? No , Other: N HEALTH HAZARDS (ACUTE AND CHRONIC)

Aluminum compounds have many commercial uses and are commonly found in industry. Many of these materials are active chemically and thus exhibit dangerous toxic and reactive properties. Inhalation of fine aluminum oxide particles is associated with Shaver's disease. (Sax, Dangerous Properties of Industrial Materials, eighth edition)

INHALATION:

Acute: Toxic by inhalation of dust. Inhalation of finely divided dust may cause coughing, mucous production and shortness of breath.

Chronic: Inhalation of finely divided dust may cause lung damage affecting breathing capacity.

INGESTION:

Acute: No acute health effects recorded. Chronic: No chronic health effects recorded.

SKIN: Acute: No acute health effects recorded. Chronic: No chronic health effects recorded

EYE:

Acute: Dust may cause eye irritation.
Chronic: No chronic health effects recorded.

TARGET ORGANS: May affect the lungs and respiratory system.

CARCINOGENICITY: NTP? No , IARC Monographs? No , OSHA Regulated? No

CARCINOGENICITY/OTHER INFORMATION

Questionable carcinogen with experimental neoplastigenic and tumorigenic data by implantation.

RECOMMENDED EXPOSURE LIMITS: See "Section II" LD 50/LC 50: NE

SIGNS AND SYMPTOMS OF EXPOSURE

INHALATION: May cause cough, mucous production and shortness of breath.

INGESTION: No acute or chronic health effects recorded.

SKIN: No acute or chronic health effects recorded.

EYE: May cause redness, itching, burning and watering.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Pre-existing respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove victim to fresh air; keep warm and quiet; give oxygen if breathing is difficult and seek medical attention if symptoms persist.

INGESTION: Not applicable

SKIN: Not applicable

EYE: Flush eyes with lukewarm water, lifting upper and lower eyelids, for at least 15 minutes. Seek medical attention.

NOTE TO PHYSICIAN

No data available.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE Aluminum oxide, powder, pieces and sputter targets

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Wear appropriate respiratory and protective equipment specified in section 8-Control Measures. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal.

WASTE DISPOSAL METHOD

Dispose of in accordance with local, state and federal regulations.

RCRA WASTE ID CODE NA HAZARD LABEL INFORMATION:

Store in cool, dry area Store in tightly sealed container

Wash thoroughly after handling

PRECAUTIONS TO BE TAKEN IN HANDLING

None

PRECAUTIONS TO BE TAKEN IN STORING

No data available.

OTHER PRECAUTIONS

None

SECTION VIII- CONTROL MEASURES Aluminum oxide, powder, pieces and sputter targets

PROTECTIVE EQUIPMENT SUMMARY - HAZARD LABEL INFORMATION:

NIOSH approved respirator Impervious gloves Safety glasses

RESPIRATORY EQUIPMENT (SPECIFY TYPE)

NIOSH - approved respirator

VENTILATION

Local Exhaust: If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Special: None

Mechanical (Gen): No special ventilation requirements.

Other: None

EYE PROTECTION

Safety glasses

PROTECTIVE GLOVES

Rubber or vinyl disposable gloves

OTHER PROTECTIVE CLOTHING

Protective clothing not necessary for aluminum oxide

WORK/HYGIENIC/MAINTENANCE PRACTICES

Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.

SECTION IX - ADDITIONAL COMMENTS Aluminum oxide, powder, pieces and sputter targets

SUPERCEDES REVISION 09/23/2002

Control of Substances Hazardous to Health Regulations EH40 Occupational Exposure Limits

Maximum Exposure Limit: NE

Occupational Exposure Standard: 10 mg/m3 Total Inhalable Dust

5 mg/m3 Respirable Dust



DOT PROPER SHIPPING NAME Not Hazardous **DOT HAZARD CLASS:** Not regulated by DOT **DOT HAZARD LABEL:** Not regulated by DOT

UN/NA NUMBER: No data

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Abbreviations used: NA=Not Applicable NE: Not Established

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