



## MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET - May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

Date : 05/22/2003

# Washington Mills Electro Minerals Corp. White Aluminum Oxide

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Duralum Special White, Duralum Special White SK, BPA White Buffing Powders, BPH White Fused Buffing Powder, *Duralum White Products:* AB, RF, RF/HD, RF S-2 Fines, AB Bubbles, LEV 1000

CHEMICAL NAME: White Aluminum Oxide

COMPANY IDENTIFICATION

Washington Mills  
Electro Minerals Corp.  
1801 Buffalo Ave.  
P.O. Box 423  
Niagra Falls, N.Y. 14302

EMERGENCY / TECHNICAL NUMBERS

(716) 278-6763  
(716) 278-6650 (FAX)  
CHEMTREC:  
(800) 424-9300

PRODUCT INFORMATION: MSDS Requests and Product Information: (716) 278-6600

SPECIAL NOTES:

### 2. COMPOSITION / INFORMATION INGREDIENTS

<u>COMPONENTS</u>	<u>CAS No.</u>	<u>OSHA Exposure Limits (PEL)</u>	<u>ACGIH Recommended Limits (TLV)</u>	<u>Percent by Weight</u>
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> ) <sup>1</sup>	1344-28-1	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	>99%

<sup>1</sup> Non-fibrous form of aluminum oxide

COMPOSITION COMMENTS:

All other oxides (SiO<sub>2</sub> + Fe<sub>2</sub>O<sub>3</sub> + Na<sub>2</sub>O + CaO + MgO + TiO<sub>2</sub>) total less than 1%. All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

### 3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE: May irritate eyes

SKIN: Not absorbed through the skin. May cause abrasions.

INGESTION: No known adverse effects, but ingestion is not recommended.

INHALATION: May cause coughing or shortness of breath.

CHRONIC EFFECTS: Can alter the course of inhalation tuberculosis leading to extensive fibrosis and progressive disease.

### 4. FIRST AID MEASURES

EYE: Wash with large amounts of water. Get medical attention if needed.

SKIN: Wash with water. Obtain first aid or medical assistance if needed.

INGESTION: If swallowed, seek medical attention.

INHALATION: Remove to fresh air, apply artificial respiration as needed. Get medical attention if needed.

## 5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Non-flammable  
FLASH POINT: None  
AUTOIGNITION: None  
FIRE/EXPLOSION POTENTIAL: None  
FLAMMABILITY LIMITS (% by volume in air): None  
EXTINGUISHING MEDIA: N/A  
NFPA RATINGS: Health 0; Flammability 0; Reactivity 0.  
FIRE FIGHTING INSTRUCTIONS: None  
SPECIAL FIRE FIGHTING PROCEDURES: None  
COMBUSTION PRODUCTS: None

## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear protective equipment. See Section 8.  
CLEANUP MEASURES: Normal cleanup procedures. Avoid generating dust. Dispose according to standard landfill methods consistent with applicable Federal, State and Local laws.

## 7. HANDLING AND STORAGE

NORMAL STORAGE: General storage, ambient air temperature and pressure.  
HANDLING: Avoid generating dust. Handle with adequate ventilation for dust. See OSHA 29 CFR 1910-94 (Ventilation).

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposures below PELs or TLVs.  
RESPIRATORY PROTECTION: Recommended if PELs or TLVs are exceeded. Use NIOSH/MSHA approved respirators.  
EYE AND FACE PROTECTION: Use safety glasses with side shields. If there is potential for exposure to particles which could cause mechanical injury to the eye, wear goggles.  
SKIN AND HAND PROTECTION: Gloves as desired by user.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<u>PHYSICAL DESCRIPTION:</u> Granular Solid or Powder, White	<u>pH:</u> N/A
<u>ODOR:</u> Odorless	<u>FLASH POINT:</u> None
<u>VAPOR PRESSURE:</u> N/A	<u>VAPOR DENSITY (AIR=1):</u> N/A
<u>BOILING POINT:</u> Sublimes	<u>FREEZING POINT:</u> N/A
<u>MELTING POINT:</u> 2100°C	<u>SOLUBILITY:</u> Insoluble in water, partially soluble in HF
<u>SPECIFIC GRAVITY:</u> 3.6	<u>VOLATILE ORGANIC COMPOUNDS (VOC):</u> N/A
<u>EVAPORATION RATE:</u> N/A	<u>VISCOSITY:</u> N/A
<u>PERCENT VOLATILE (VOL):</u> N/A	

## 10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS: N/A  
CHEMICAL STABILITY: Stable  
CONDITIONS TO AVOID: N/A  
INCOMPATIBILITY WITH OTHER MATERIALS: None  
HAZARDOUS POLYMERIZATION: Polymerization will not occur.



## 11. TOXICOLOGICAL INFORMATION

Not Available.

## 12. ECOLOGICAL INFORMATION

Not Available.

## 13. DISPOSAL CONSIDERATIONS

Approved landfill in accordance with all local, state and federal regulations.

## 14. TRANSPORTATION INFORMATION

U.S. DOT - Not regulated as a hazardous material.

## 15. REGULATORY INFORMATION

TSCA - The chemical components of this product are registered under the Toxic Substance Control Act (Title 40 CFR Part 710).

Originally prepared by: Margaret A. O'Brien, Manager Environmental, Health & Safety, Washington Mills.

*The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however, Washington Mills Electro Minerals Corporation makes no expressed or implied warranty with respect to the accuracy or the information or the suitability of the recommendations and assumes no liability to any user thereof.*