# *SAFETY DATA SHEETS (SDS)*

## 1. PRODUCT IDENTIFICATION Pre Polish (alternate)

PRODUCT NAME: BROWN FUSED ALUMINUM OXIDE

SYNONYMS:

Brown Alox, BFA, Sunbelt Alox, Blasting Media, Grit

FORMULA: $Al_2O_3$ (>92%)

RECOMMENDED USES:

For General Industrial Applications such as: grinding, deburring, snagging, and cutting of various materials. As a Blasting Grain it is suitable for wet or dry surface preparations.

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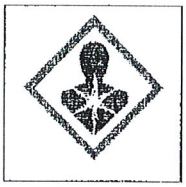
## 2. HAZARD IDENTIFICATION

HAZARD CLASSIFICATION:
o Non-flammable brown solid grain or powder that is non-combustible and is stable,
o Abrasive particulate may cause minor Eye Irritation and/or Skin Irritation.
o Specific Target Organ Toxicity - May cause damage to lungs through prolonged or repeated exposure to dust,
o Titanium Dioxide ($Ti0_2$) component is suspected of causing cancer via inhalation.



**Warning**

HAZARD STATEMENTS:
o Harmful if swallowed.
o May cause minor skin or eye irritation. Particulate may scratch cornea or cause other mechanical eye injury, or
o In Inhaled; May cause respiratory irritation through single use, or cause damage to lungs through prolonged or repeated exposure to concentrations in excess of the PEL or TVL without respiratory protection. This may also decrease the ability of the lungs to clear particulate matter which may cause shortness of breath and increase susceptibility to respiratory disease. Minor component titanium dioxide is suspected of causing cancer via inhalation.

PREVENTION:
o Wash hands thoroughly after use.
o Wear protective gloves and eye/face protection.
o Do not breathe dust. Do not use compressed air or dry sweeping to remove dust from work areas,
o Wear respiratory protection for concentrations in excess of the PEL or TVL.
o Store in dry area in closed containers.
o Dispose of according to applicable federal, state and local regulation.

**FIRST AID:**

* If Swallowed: Call doctor if you feel unwell.

* If on Skin: wash with soap and water. Seek medical advice if symptoms persist.

* If in Eyes: Flush with warm water for 15 minutes (remove contacts if possible). Seek medical attention if symptoms persist.

* If Inhaled: If breathing is difficult – Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms or feeling unwell – Seek immediate medical attention.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Typical Ingredient – | CAS# | Weight(%) | PEL-OSHA ($mg/m^3$) | TLV-ACGIH ($mg/m^3$) | Carcinogen (Y/N) |
|---|---|---|---|---|---|
| Alumina ($Al_2O_3$) | 1344-28-1 | 92-96 | 10* | 10 | No |
| Titanium Dioxide ($TiO_2$) | 13463-67-7 | 1 - 4 | 15 | 10 | Yes** |
| Silicon dioxide ($SiO_2$) | 7631-86-9 | 0-2 | 16 | | No |
| Iron Oxide ($Fe_2O_3$) | 1309-37-1 | 0-1.5 | 10 | 5 | No |
| * Respirable Fraction | | | 5 | 5 | |
| Nickle (Ni) | 7440-02-0 | .000067% | 1.0 | 1 | Yes*** |
| | | > .67 $mg/m^3$ | 1.0 | 1 | |

** Titanium Dioxide is suspected of causing cancer via inhalation (Carc.2 H351) This product is non classified as a carcinogen based on a non-inhalable form of product. IARC listings for titanium dioxide note that substance must be respirable.

Materials are regulated under OSHA 29 CFR 1900.2000, Hazardous Communication Standard. Source of exposure limit data: ACGIH Threshold Limit Values, (OSHA Tables Z-1-A, Z-2, Z-3) Ingredients listed under TSCA.

*** The U.S. Department of Health and Human Services (DHHS) has determined that nickel metal may reasonably be anticipated to be a carcinogen and nickel compounds are known human carcinogens. The International Agency for Research on Cancer (IARC) has determined that some nickel compounds are carcinogenic to humans and that metallic nickel may possibly be carcinogenic to humans.

## 4. FIRST-AID MEASURES

EYES: Flush eyes with lukewarm water for 15 minutes, opening and closing eyelids to ensure adequate rinsing. If redness, irritation, pain, or tearing occurs, seek medical attention.

SKIN: Wash contaminated area with soap and water. Wash contaminated clothing. Seek medical attention if symptoms persist.

INHALATION: If inhalation of high concentrations occurs, move to fresh air. If breathing has stopped, a certified professional should give CPR. Seek immediate medical attention,.

INGESTION: Do not induce vomiting unless suggested by a doctor. Seek medical attention.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT :** Not applicable

**FLAMMABLE LIMITS:** **LEL:** Not applicable **UEL:** Not applicable

**AUTO IGNITION TEMPERATURES:** Not Applicable

**EXTINGUISHING MEDIA:** Use media appropriate for surrounding fire.

**FIRE AND EXPLOSION HAZARDS:** non-flammable, non-combustible. Product will not burn.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None

**FIRE FIGHTING INSTURCTIONS:** Firefighters should wear a NIOSH/MSHS approved full-faced self-contained breathing apparatus (SCBA) operated in positive pressure mode, and full turnout or bunker gear.

NFPA CLASSIFICATION: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

## 6. ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unauthorized and/or unprotected personnel. Avoid dust generation. Water mist may be added as necessary to control the level of airborne dusts. Respiratory protection for clean-up personnel depends on the level of exposure anticipated. (See Section 8. *EXPOSURE CONTROLS/PERSONAL PROTECTION).* Gently shovel or scoop into clean dry container for later recycle or disposal. Comply with Federal, State and Local regulations regarding reporting of spills and disposal.

## 7. HANDLING AND STORAGE

HANDLING: Prevent formation of dust, and avoid dust inhalation. Use only in well ventilated areas. Any deposit of dust that cannot be avoided must be regularly removed. DO NOT use compressed air or dry sweeping to remove dust from work area. Wash thoroughly with plenty of water.

STORAGE: Store in dry area in closed containers. Protect from high humidity and water.
Store receptacle in a well ventilated area.
Store away from oxidizing agents. Store away from foodstuffs.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: Under normal working conditions below acceptable exposure guidelines, none is required. For concentrations above the PEL but less than 10X the PEL, a NIOSH/OSHA approved dust mist respirator should be worn. Appropriate respirator selection will be dependent upon the magnitude of exposure and should be selected in accordance with 29 CFR 1910.134 (See Section 3 for PEL (OSHA) and TLV (ACGIH) exposure limits).

SKIN PROTCTION: Protective gloves, as needed, to prevent skin contact.

EYE PROTECTION: Safety-glasses with side shields or goggles to prevent dust and particles from entering the eye. See OSHA 29 CFR 1910.133.

OTHER: Under dusty conditions, employees should wear coveralls or other suitable work clothing. Contaminated clothing must be vacuumed before removal. DO NOT REMOVE dust from clothing by blowing or shaking. Keep away from foodstuff, beverages and feed.

ENGINEERING CONTROLS: Use general ventilation. Local exhaust may be necessary for processes which generate large quantities of airborne dust. Keep exposures below applicable OSHA PEL'S and ACGIH-TLV's.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Formula | $Al_2O_3$ |
| Boiling Point | Not Applicable |
| Melting Point Specific | 2050 Degrees C |
| Gravity ($H_20 = 1$) | 3.95 |
| Percent Volatile | 0 |
| Evaporation Rate | None |
| Solubility in Water | Insoluble |
| Solubility in Alcohol | None |
| pH (10% slurry) | Not Applicable |
| Appearance/Odor | Brown Solid or Powder/odorless |

## 10. STABILITY AND REACTIVITY

STABILITY: Stable under normal ambient conditions of temperature and pressure.

THERMAL DOCOMPOSTION: No decomposition if used and stored to specifications.

POSIBLE HAZARDOUS REACTIONS: Reacts with strong acids, oxidizing agents, and with strong alkali.

CONDITIONS TO AVOID & INCOMPATIBLE MATERIALS: No further relevant information available.

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic metal oxide smoke.

## 11. TOXICOLOGICAL INFORMATION

| | |
|---|---|
| EYE: | Particulate matter may cause physical injury to the eye. |
| SKIN: | May cause minor irritation. |
| INHALATION: | May cause respiratory irritation through single use.<br>May cause damage to lungs or pulmonary disease through prolonged/repeated exposure to dust.<br>Minor component titanium dioxide (Ti02) is suspected of causing cancer via inhalation. |
| INGESTION: | Ingestion of large quantities may result in gastrointestinal irritation and eventually interference with phosphate absorption which results in rickets. |

## 12. ECOLOGICAL INFORMATION

| | |
|---|---|
| Aquatic Toxicity: | Generally not hazardous for water. |
| Persistence & Degradability: | Inorganic, is not eliminable from water by means of biological cleaning processes. |
| Bioaccumulative Potential: | Does not accumulate in organisms. |
| Mobility In Soil: | No further relevant information available |

## 13. DISPOSAL CONSIDERATIONS

Dispose of according to applicable federal, state and local regulations.

## 14. TRANSPORT INFORMATION

| | |
|---|---|
| U.S. Department of Transportation (D.O.T.): | Not Regulated as a Hazardous Material |
| D.O.T. HAZARD CLASS (49 CFR 172.101): | N/A |
| D.O.T. PROPER SHIPPING NAME (49 CFR 172.101): | N/A |
| D.O.T. LABELS REQUIRED (49 CFR 172.101): | N/A |
| D.O.T. PLACARDS REQUIRED: | N/A |

IMDG: **Not Regulated under IMDG (is not hazardous cargo for sea transportation).**

## 15. REGULATORY INFORMATION

TSCA: Aluminum Oxide is listed on the TSCA (Toxic Substance Control Act) inventory under CAS# 1344-28-1.

Canadian WHMIS: D2B

EPCRA Section 302 (EHSs): This product does not contain ingredients subject to reporting requirements of 40 CFR Part 355, Appendices A and B (Extremely Hazardous Substances).

CERCLA, Section 304: This product does not contain ingredients subject to state and local reporting under Section 304 of SARA Title III as listed in 40 CFR Part 302 Table 302.4.

SARA 313 REPORTING REQUIREMENTS: This product does not contain ingredients subject to the reporting requirements of Section 313 SARA, and Section 5607 of the Pollution Prevention Act.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and by definition meets the requirements of the following category: *Acute Health Hazard*

## 16. OTHER INFORMATION & LAST REVISION DATE

KEY:

| | |
|---|---|
| ACGEH | American Conference of Governmental Industrial Hygienists |
| CAS | Chemical Abstracts Service |
| DOT | Department of Transportation |
| IARC | International Agency for Research on Cancer |
| IMDG | International Maritime Dangerous Goods |
| MSHA | Mine Safety and Health Administration |
| NFPA | National Fire Protection Association |
| NIOSH | National Institute for Occupational Safety and Health |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| SARA | Superfund Amendment and Reauthorization Act |
| TLV | Threshold Limit Valve |
| TSCA | Toxic Substance Control Act |

**DISCLAIMER:**

Although reasonable care has been taken in the preparation of the information contained herein, the originator and Sunbelt Industries, INC extends no warranties, makes no representation and assumes no responsibility as to the accuracy of suitability of such information for application to the purchaser's intended purposes or for consequences of its use.

**LAST REVISION DATE: July 13, 2022**