Material Safety Data Sheet

BROWN ALUMINUM OXIDE

General Abrasive MSDS No. 004

SECTION I

MATERIAL NAME AND TRADE NAMES:
Lionite, Aluminum Oxide:
G5, GF, GSK, GFK, GFC, A/O, AS, AST:
Lionblast: LB; Lundite; Futurite; Superfine A/O:
MT-2 Fines: AOF; DCF A/O; DCFT; CF #2 A/O

MANUFACTURER:
General Abrasive
Div. of Abrasive Industries, Inc.
2000 College Avenue
NPO Box 1438
Niagara Falls, NY 14302

DATE PREPARED: 1-10-92

EMERGENCY TELEPHONE NUMBER: (716) 286-1234
INFORMATION TELEPHONE NUMBER: (716) 286-1221

CHEMICAL NAME AND SYNONYMS:
Fused Aluminum Oxide
Refractory Oxide
N/A

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

INGREDIENT:  
CAS #:  
Typical

%  
PEL

ACGIH  
TLV

Listed as:

Carcinogen

Aluminum Oxide (Al₂O₃)  
1344-28-1  
96.4  
10 mg/m³  
10 mg/m³  
No

Titanium Oxide (TiO₂)  
13463-67-7  
2.7  
15 mg/m³  
10 mg/m³  
No

Silicon Dioxide (SiO₂)  
7631-86-9  
0.5  
See Below  
See Below  
No

Magnesium Oxide (MgO)  
1309-48-4  
0.2  
15 mg/m³  
10 mg/m³  
No

Iron Oxide (Fe₂O₃)  
1309-17-1  
0.1  
10 mg/m³  
5 mg/Fe₂O₃/m³  
No

Calcium Oxide (CaO)  
1305-78-8  
0.1  
5 mg/m³  
2 mg/m³  
No

PEL & TLV for SiO₂ = (10 mg/m³) / (% Respirable SiO₂+2)
**Respirable fraction 5 mg/m³.

**Listed as Carcinogen by:
1. American Conference of Government Industrial Hygienists (ACGIH)
2. International Agency for Research on Cancer Monographs (IARC)
3. Nation Toxicology Program (NTP)

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

MELTING POINT (°C):  
2050°C

SPECIFIC GRAVITY (H₂O = 1):  
3.95

BOILING POINT (°C):  
N/A

PERCENT VOLATILES BY VOLUME (%):  
N/A

VAPOR PRESSURE (mmHg):  
Essentially 0

EVAPORATION RATE (Butyl Acetate = 1):  
N/A

VAPOR DENSITY (Air =1):  
N/A

SOLUBILITY IN WATER:  
Insoluble

APPEARANCE AND ODOR:  
Light to Dark Brown

No Odor
FLASH POINT: Nonflammable  FLAMMABLE LIMITS: N/A
EXTINGUISHING MEDIA: N/A
SPECIAL FIRE FIGHTING PROCEDURES: N/A
UNUSUAL FIRE AND EXPLOSION HAZARD: N/A

SECTION V - REACTIVITY DATA

STABILITY: Stable  CONDITIONS TO AVOID: N/A
INCOMPATIBILITY (MATERIALS TO AVOID): Incompatible with hot chlorinated rubber.

HAZARDOUS DECOMPOSITION PRODUCTS: N/A  CONDITIONS TO AVOID: N/A
HAZARDOUS POLYMERIZATION: N/A

SECTION VI - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: See Section II.
CARCINOGENICITY: See Section II.

EFFECTS OF OVEREXPOSURE/ROUTES OF ENTRY: Exposure to excessive airborne concentrations may result in acute respiratory disorders. Individuals with impaired pulmonary function should not be subjected to excessive airborne concentrations. Symptoms of excessive exposure might include deposits of material in eyes, ears, nasal passages and irritation of the mucous membranes. Irritation of the skin may also occur due to mechanical/chemical action.

EMERGENCY AND FIRST AID PROCEDURES: Remove from exposure. Irrigate eyes and skin with copious quantities of water. Seek medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Normal precautions for inert or nuisance dusts and particulates.
WASTE DISPOSAL METHOD: Dispose of in compliance with all Federal, state and local laws and regulations.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Use handling procedures which will limit exposure to excessive airborne dust.
OTHER PRECAUTIONS: N/A

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: Utilize NIOSH approved respiratory protection devices for nuisance dust.
VENTILATION: Utilize local exhaust to keep airborne concentration below TLV.

PROTECTIVE GLOVES: May be used to prevent dermatitis.
EYE PROTECTION: Utilize NIOSH approved eye protection devices.
OTHER PROTECTIVE EQUIPMENT: Arm sleeves or barrier creams may be useful in the prevention of dermatitis.

HYGIENIC PRACTICES: Maintain normal housekeeping procedures for nuisance dust.

* Information explained within was obtained from voluntary sources and is subject to be accurate for the manner in which the product is able to be used. Other uses should result in qualifications which are not specified within this document.