



MATERIAL SAFETY DATA SHEET

A> Chemical Product & Company Identification

Chemical Name	Product Name/Synonyms	Molecular Formula
Brown Aluminum Oxide	Brown Aluminum Oxide	AL ₂ O ₃

Company Name: Faithfull Tools, Phoenix House,
 3 White Lodge Business Estate,
 Hall Road, Norwich, Norfolk, NR4 6DG
 Phone: 01603 671640

HMIS

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
Personal Protection	E

B> Composition/Information on Ingredients

Chemical Name	CAS No.	EINECS	% by Weight	OSHA PEL (Exposure Guidelines)	
				Total(TWA)	Respirable(TWA)
Aluminum Oxide	1344-28-1	215-691-6	92.0 – 99.0	15 mg/m ³	5 mg/m ³
Titanium Dioxide	13463-67-7	236-675-5	1.0 – 4.0		
Silicon Dioxide	7631-86-9	231-545-4	0.2 – 1.7	80 mg/m ³ % SiO ₂	
Iron Oxide	1309-37-1	215-168-2	0.1 – 1.5	10 mg/m ³	
Impurities	Other total oxides (trace amounts)		< 1.0 %		
Non-fibrous Amorphous					

C> Hazard Identification/Potential Health Effects

Emergency Overview: Dust irritating to eyes and respiratory tract.

ROUTES OF ENTRY & SYMPTOMS

EYE	Mechanical eye irritant. May cause tearing and redness.
SKIN	Mechanical skin irritant. Prolonged contact may cause skin abrasion, redness, itching.
SENSITIZATION	N/A
INGESTION	May cause nausea and vomiting. No long-term health effects are anticipated.
INHALATION	Dust may be slightly irritating to respiratory tract. May cause coughing or shortness of breath.
TARGET ORGANS	Eyes, skin, respiratory system.
ACUTE EFFECTS of EXPOSURE	Exposure may include persistent cough, shortness of breath.
CHRONIC EFFECTS of EXPOSURE	N/A
SIGNS & SYMPTOMS of EXPOSURE	Coughing, shortness of breath

D> First Aid Measures

EYES	Flush eyes with large amounts of water. If signs/symptoms persist, seek medical attention.
SKIN	Wash affected area with soap and water. If signs/symptoms persist, seek medical attention.
INHALATION	Remove person to fresh air. If signs/symptoms develop, seek medical attention.
INGESTION	Ingestion is an unlikely route of exposure. Leave decision to induce vomiting to qualified medical personnel, since particles may be aspirated into the lungs. Seek immediate medical attention.

E> Fire Fighting Measures			
FLAMMABLE/COMBUSTIBLE PROPERTIES		None	
EXTINGUISHING MEDIA		Extinguisher suitable for ordinary combustible materials. Class A extinguishing agents.	
SPECIAL FIRE FIGHTING PROCEDURES		In fire conditions, fire-fighters should wear appropriate respiratory protection and full protective gear.	
FIRE & EXPLOSION HAZARDS		Not applicable. None inherent in this product.	
F> Accidental Release Measures			
PERSONAL SAFETY PRECAUTIONS		Avoid creating dust. Avoid contact with skin and eyes. Use with adequate ventilation.	
ENVIRONMENTAL PRECAUTIONS		Ensure material is properly disposed.	
CLEANUP MEASURES		Collect spilled material mechanically and place in a suitable, compatible, properly labeled container. Avoid creating any dust. Ensure adequate ventilation and dispose of material in accordance with all applicable local, state and federal laws.	
G> Handling & Storage			
HANDLING	Avoid contact with skin and eyes. Wash hands before eating. Prevent the formation of dust. Handle with adequate ventilation.		
STORAGE	Normal Storage: Store in the original container in a cool, dry, well ventilated area. Keep containers tightly sealed.		
H> Exposure Controls & Personal Controls			
ENGINEERING CONTROLS	Provide sufficient mechanical ventilation to reduce airborne concentrations and minimize exposure. Maintain employee exposure below applicable permissible exposure limits.		
HYGIENIC MEASURES	Do not inhale dust/smoke/mist. Avoid contact with skin and eyes. Wash hands before eating.		
RESPIRATORY	Avoid breathing dust. Assess exposure concentrations of all materials involved		
PROTECTION	in the workplace. If concentrations exceed the exposure limits listed in Section 2, Exposure Guidelines, or irritation or other symptoms are experienced, follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard 149 approved respirator.		
EYE PROTECTION	Avoid eye contact. To minimize the risk of injury to eyes, always wear appropriate protective safety glasses or chemical safety goggles.		
SKIN PROTECTION	Avoid skin contact. Wear appropriate protective clothing to minimize risk of injury to skin from contact with dust or physical abrasion.		
I> Physical & Chemical Properties			
FORMULA	AL ₂ O ₃	APPEARANCE	Brown to Black
PHYSICAL STATE	Solid-granular	ODOR	Odorless
BOILING POINT	N/A	FLASH POINT	N/A
MELTING POINT	N/A	DECOMPOSITION TEMPERATURE	N/A
pH at 20°	N/A	VAPOR PRESSURE	N/A
VAPOR DENSITY	N/A	OXIDIZING PROPERTIES	N/A
EXPLOSIVE PROPERTIES	None	SPECIFIC GRAVITY	3.95
SOLUBILITY	Insoluble	BULK DENSITY	N/A

J> Stability & Reactivity	
CHEMICAL STABILITY	Stable
THERMAL DECOMPOSITION	N/A
INCOMPATIBILITY	N/A
CONDITIONS TO AVOID	None known
HAZARDOUS DECOMPOSITION PRODUCTS	N/A
DANGEROUS REACTIONS	None known
HAZARDOUS POLYMERIZATION	Will not occur
K> Toxicological Information	
CAS # 1344-28-1	Data Not Available
COMPONENT ANALYSIS LD50/LC50	
CARCINOGENICITY	
EPIDEMIOLOGY	
TERATOGENICITY	
NEUROTOXICITY	
MUTAGENICITY	
REPRODUCTIVE EFFECTS	
L> Ecological Information	
ECOTOXICITY	Not Available
M> Disposal Considerations	
Solid or chemical waste generators must determine whether a discarded waste is classified as a hazardous waste. U.S. EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local waste regulations to ensure complete and accurate classification.	
N> Transportation Information	
U.S. DOT	This product is not regulated by USDOT as a Hazardous Material (49 CFR 172.101). No UN code assigned. No placard required for transportation.
IMDG	Not regulated as a Hazardous Material.
ACAO/IATA	Not regulated as a Hazardous Material.
EU (ADR, RID)	Not regulated as a Hazardous Material.
O> Regulatory Information	
TSCA	Aluminum Oxide is listed on the TSCA inventory under CAS# 1344-28-1
RCRA	Aluminum Oxide is not classified as a hazardous material under RCRA or its regulations, 40 CFR 261.
CERCLA	Aluminum Oxide is not classified as a hazardous substance under CERCLA regulations, 40 CFR 302.
SARA	Aluminum Oxide is not an extremely hazardous substance in Section 302 and is not a toxic chemical subject to the requirements of 313.