

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking**Product Identifier:**

Name: Aluminum Oxide (Brown)
Product Number(s): PD1001, PD1009, PD1012, PD1014, PD1034 (plus dash nos. of each)
CAS No: Mixture
Index No: Mixture
EC No: Mixture
REACH Registration No: Mixture
Formula: Al₂O₃
Synonyms: A Powder, J Powder, N Powder, SB Powder, V Powder, AlOx

Intended use of the product and uses advised against:

Recommended use: Blasting abrasive

Details of the supplier of the safety data sheet:

Comco Inc.
 2151 N. Lincoln St.
 Burbank, CA 91504
 1-818-841-5500
info@comcoinc.com

Emergency telephone number:

1-818-841-5500

SECTION 2: Hazard(s) Identification**Classification of the substance or mixture****Regulation (EC) No. 1272/2008 (CLP)**

Hazard category	Hazard statement
Carc. 2	H351: Not applicable in the E.U. Only applicable in North America

Label elements**Hazard pictograms:**

GHS08

Signal word:

WARNING (Applicable only within the United States)

Hazard statements:

The following hazard statements are applicable only according to OSHA regulations within the United States. These statements are not applicable for the CLP regulation (1272/2008/EC) in the EU.

Precautionary statements:

H351: Suspected of causing cancer via inhalation.
 Applicable only within the United States (USA)
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P308 + P313: IF exposed or concerned: Get medical advice/attention.
 P405: Store locked up.
 P501: Dispose of contents/container in accordance with local/regional/national/international regulations.
 Not Available

Other hazards:

Not Available

SECTION 3: Composition/Information on Ingredients

Substance/Mixture: Mixture

Name:	CAS#	EC#	%W/W	REACH #	GHS Classification
Aluminum Oxide	1344-28-1	215-691-6	>88	01-2119529248-35-XXXX	None
Titanium Oxide	13463-67-7	236-675-5	<6	01-2119489379-17-XXXX.	Carc. 2, H351 (IARC)
Iron (III) Oxide	1309-37-1	215-168-2	<5	N.A.	None
Calcium Oxide	1305-78-8	215-138-9	<0.6	N.A.	Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335
Magnesium Oxide	1309-48-4	215-171-9	<0.5	N.A.	None

SECTION 4: First-Aid Measures**Description of first aid measures****General information:**

None

After inhalation:

Remove to fresh air. If symptoms persist, seek medical attention. Provide oxygen treatment if affected person has difficulty breathing.

After skin contact:

Remove contaminated clothing from area and wash affected skin thoroughly with water. If irritation persists or rash develops, seek medical attention.



COMCO INC. 2151 N. Lincoln St. / Burbank, CA 91504
 818-841-5500 / 800-796-6626 / www.comcoinc.com

After eye contact: Immediately remove contact lenses if possible. Rinse open eyes with water for several minutes. Seek medical attention if irritation persists.

After swallowing: Rinse mouth out and then drink plenty of water. Do not induce vomiting. Call for medical help immediately.

Most important symptoms and effects, both acute and delayed: Coughing and breathing difficulties. Gastric or intestinal disorders.

Hazards: Danger of impaired breathing. Suspected of causing cancer. Route of exposure: inhalation.

Indication of any immediate medical attention and special treatment: No further relevant information available.

SECTION 5: Fire-Fighting Measures**Extinguishing media**

Suitable extinguishing media: Extinguisher suitable for ordinary combustible materials. Class A extinguishing agents.

Unsuitable extinguishing media: None known.

Special hazards arising from the substance or mixture: None known.

Advice for firefighters: A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Extinguish preferably with dry chemical, foam, or water spray.

SECTION 6: Accidental Release Measures**Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: Wear suitable protective clothing. Avoid dust generation. Ensure adequate ventilation.

For emergency responders: Wear suitable protective clothing. Avoid dust generation. Ensure adequate ventilation.

Environmental precautions: No special measures required.

Methods and material for containment and cleaning up

Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal in accordance with section 13.

Reference to other sections: See also sections 7 for information on safe handling, section 8 for information on personal protection equipment, and section 13 for disposal information.

SECTION 7: Handling and Storage**Precautions for safe handling**

Protective measures: Avoid accumulation of dust. Use only in well-ventilated areas. Avoid breathing dust. Any unavoidable deposit of dust must be regularly removed.

Hygiene measures: Do not eat drink or smoke when using this product. Wash hands thoroughly after handling. Remove contaminated clothing and protective gear before entering eating areas.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well-ventilated area. Protect from humidity and water. Keep container tightly closed. Segregate from incompatible materials. Store away from foodstuffs.

Specific end uses: Not Available

SECTION 8: Exposure Controls/Personal Protection**Control parameters****Occupational exposure limits**

Substance	CAS #	Exposure Limit	Note:
Aluminum Oxide	1344-28-1	15 mg/m ³ LTEL, 5 mg/m ³ respirable fraction	OSHA
		10 mg/m ³ TLV, 1 mg/m ³ respirable fraction	ACGIH
Titanium Dioxide	13463-67-7	15 mg/m ³ LTEL	OSHA
		10 mg/m ³ TLV	ACGIH
Iron Oxide	1309-37-1	10 mg/m ³ LTEL	OSHA
		5 mg/m ³ TLV respirable fraction	ACGIH
Calcium Oxide	1305-78-8	5 mg/m ³ PEL, 2 mg/m ³ REL/TLV	OSHA
Magnesium Oxide	1308-47-4	15 mg/m ³ PEL, 10 mg/m ³ TLV inhalable fraction	OSHA

DNEL/PNEC-values: Not Available

Exposure controls

Appropriate engineering controls: Adequate dust ventilation required.

Personal protective equipment**Hand protection:**

Gloves if desired.

Eye protection:

NIOSH approved goggles recommended.

Body protection:

Clean clothing to cover skin.

Respiratory protection:

Approved NIOSH dust mask if recommended exposure levels are exceeded.

Environmental exposure controls:

None

SECTION 9: Physical and Chemical Properties**Information on basic physical and chemical properties**

Appearance: Granular powder
Color: Brown
Odor: Odorless

Odor threshold:	None
pH:	Not Applicable
Melting point/range:	2072 °C
Boiling point/range:	2977 °C
Flash point:	Incombustible
Evaporation rate:	Not Applicable
Flammability (solid, gas):	Not Available
Upper/lower flammability/explosive limits:	Not Available
Auto-ignition temperature:	Not Available
Decomposition temperature:	2700 °C (4892 °F)
Vapor pressure:	Not Applicable
Vapor density:	Not Applicable
Relative density:	3.9 g/cm ³
Solubility:	Insoluble
Viscosity, dynamic (20 °C):	Not Available
Viscosity, kinematic:	Not Available
Explosive properties:	Not Available
Oxidizing properties:	Not Available
Partition coefficient: n-Octanol/Water:	Not Applicable

Physical hazards: Not Available
Other information: No additional information

SECTION 10: Stability and Reactivity

Reactivity:	Slight
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	None under normal use conditions.
Conditions to avoid:	Dust generation without adequate ventilation.
Incompatible materials:	Strong acids, chlorine trifluoride, and ethylene oxide.
Hazardous decomposition products:	None

SECTION 11: Toxicological Information

Information on toxicological effects

Acute toxicity:	None
Skin corrosion/irritation:	May cause mechanical skin irritation. Not corrosive.
Serious eye damage/irritation:	May cause mechanical eye irritation.
Respiratory or skin sensitization:	No data
Germ cell mutagenicity:	No data
Carcinogenicity:	Crystalline silica and titanium dioxide are suspect or confirmed carcinogens under ACGIH (cat. 2B), NTP, IARC and/or the state of California (respirable particles).
Reproductive toxicity:	No data
Specific target organ toxicity (single exposure):	No data
Specific target organ toxicity (repeated exposure):	Suspected of causing cancer. Repeated or long-term inhalation of product dusts may cause pulmonary disease. May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard:	No data
Other information:	None

SECTION 12: Ecological Information

Toxicity	
Ecotoxicity effects:	None known
Persistence and degradability:	Inorganic product. Not eliminable from water by means of biological cleaning processes.
Bioaccumulative potential:	The product has low potential for bioaccumulation
Mobility in soil:	No data
Results of PBT & PvB assessment:	No data
Other adverse effects:	No known significant effects or critical hazards

SECTION 13: Disposal Considerations

Waste treatment methods

Recommendations: Smaller quantities can be disposed of with household waste. Contact waste processors for recycling information. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. If product becomes contaminated, follow disposal instructions for contaminant. Dispose of in accordance to federal, state, and local regulations. Do not allow product to reach sewage system. Recycle packaging if possible.

Uncleaned Packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport Information

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO- TI/IATA-DGR)
UN number	Not regulated	Not regulated	Not regulated	Not regulated
UN proper shipping name	None	None	None	None
Transport hazard class(es)	None	None	None	None
Hazard label(s)	None	None	None	None
Packing group	None	None	None	None
Environmental hazards	None	None	None	None

Special precautions for user: None

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal regulations

- TSCA Chemical Inventory Status: All components of this product are listed.
- CERCLA Reportable Quantity: None.
- SARA Title III:
 - Section 302 Extremely Hazardous Substances: None.
 - Section 304 Emergency Release Reporting: None.
 - Section 311/312 Hazardous Categories: Immediate (acute).
 - Section 313 Toxic Categories: None.
 - Section 355 Extremely Hazardous Substances: Not Listed.
- Clean Air Act of 1990 – Title VI: This material does not contain, nor was it manufactured using ozone depleting chemicals.

US State regulations

- California Proposition 65: This product contains the following substance(s) known to the state of California to cause cancer and/or reproductive harm: Titanium Dioxide (respirable).
- Cal-OSHA Workplace Airborne Contaminant: Listed.
- Idaho Air Contaminant: Listed.
- Illinois Toxic Substances Disclosure to Employees List: Listed.
- Massachusetts Right to Know List: Listed.
- Massachusetts Hazardous Substance Code: F9
- Minnesota Hazardous Substance List: Listed. Code: A Carcinogen: No
- New Jersey Right to Know List: Listed – substance No. 2891
- Pennsylvania Right to Know List: Listed.
- Pennsylvania Hazardous Substance List (Chapter 323 Appendix A): Listed Code: E
- Rhode Island Hazardous Substance List: Listed.
- Texas Air Contaminant with Health Effects Screening Level: Listed (as a synonym)
- Washington Air Contaminant: Listed – limit TWA 10 mg/m³

Canadian Regulations:

- WHMIS Classification: Not a controlled product.
- DSL (Domestic Substance List): All components of this product are listed on the DSL.
- NPRI (National Pollutant Release Inventory): Not subject to mandatory reporting requirements.
- IDL (Ingredient Disclosure List): All components of this product are listed on the IDL.
- Canadian Hazard Symbol: N/A

EU Regulations (EINECS 215-691-6)

Indication of Danger: Not dangerous.

This product is considered non-dangerous in accordance with 1999/45/EC.

Other International Regulations:

- IARC (International Agency for Research on Cancer): Listed – Titanium dioxide

Chemical Safety Assessment: No

SECTION 16: Other Information

Date of preparation: 04/27/2020

Revision version: J

Reason for Revision: Updates to sections 1, 2,4, 6,7,8,11,12,13, 15 & 16.

Relevant Phrases: H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer. Route of exposure: Inhalation.

NFPA hazard rating:

Health hazard: 1 – Exposure could cause irritation but only minor residual injury even if no treatment is given.

Fire hazard: 0 – Will not burn under typical fire conditions.

Reactivity: 0 – Normally stable, even under fire conditions, and is not reactive with water.

Disclaimer: To the best of our knowledge, the information contained in this SDS is accurate or believed to be accurate. However, no liability, expressed or implied, is assumed for the accuracy or completeness of the information contained herein.

