

Safety Data Sheet

815-10, 815-14, 815-22, 815-30 Aluminum Oxide Grinding Powders: 240 grit, 320 grit, 400 grit, and 600 grit size

Issue Date (08-01-15)

Review Date (08-31-17)

Section 1: Product and Company Identification

Product Name: Aluminum Oxide Grinding Powders

Synonym: Al₂O₃

Company Name

Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477

Inside USA and Canada 1-800-237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

Outside USA and Canada 1-530-243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

CHEMTREC USA and Canada Emergency Contact Number 1-800-424-9300 24 hours a day

CHEMTREC Outside USA and Canada Emergency Contact Number +1-703-741-5970 24 hours a day

Section 2: Hazard Identification

2.1 Classification of the substance or mixture: This substance is identified as non-hazardous according to the GHS-Classification system. **The following hazard and hazard labeling information applies to the inhalation of dry dust.**

GHS Pictograms:



Irritant

GHS Categories:

GHS07 – Irritant

Eye Irritant 2B

Acute Tox. Inhal. 5

H320: Causes eye irritation.

H332: May be harmful if inhaled.

2.2 Label elements

Signal Word: NA

Hazard Statements

H320: Causes eye irritation.

H332: May be harmful if inhaled.

Precautionary Statements

P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists, get medical advice / attention.

P304+P340+P312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor / physician if you feel unwell.

2.3 Other Hazards

Health Effects:

NFPA Hazard Rating: Health: 1; Fire: 0; Reactivity: 0

HMIS® Hazard Rating: Health: 1; Fire: 0; Reactivity: 0

(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment: ND

Emergency overview:

Appearance: White to tan solid, odorless

Immediate effects: Redness, pain, irritation.

Potential health effects

Primary Routes of entry: Eyes, inhalation, skin

Signs and Symptoms of Overexposure:

Eyes: Redness, pain.

Skin: Prolonged contact with large amounts of dust may cause mechanical irritation.

Dust may cause irritation in skin folds or by contact in combination with tight clothing.

Ingestion: Abdominal pain.

Inhalation: May cause irritation to respiratory tract, sneezing, coughing, burning sensation of throat which constricting sensation of the larynx and difficulty in breathing.

Chronic Exposure: Respiratory difficulties/may damage lungs.

Chemical Listed as Carcinogen or Potential Carcinogen: No.

See Toxicological Information (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Section 3: Composition / Information on Ingredients

| Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No) | % | OSHA PEL mg/m ³ | ACGIH TLV mg/m ³ | NTP Carcinogen | IARC Carcinogen | OSHA regulated Carcinogen |
|--|-------------|-------------------------------|--------------------------------|-------------------|--------------------|------------------------------|
| Aluminum Oxide (1344-28-1) | 99.0-100.0% | 15 | 15 | No | No | No |
| Proprietary, non-hazardous ingredients (N/A) | 0.0-1.0% | ND | ND | No | No | No |

Section 4: First Aid Measures**If accidental overexposure is suspected**

Eye(s) Contact: Immediately rinse with water while holding eyes open for prolonged period of time. Seek medical attention if material is embedded in eye or if irritation persists. If irritation persists: Get medical advice/attention.

Skin Contact: Rinse immediately with plenty of water. Gently wash with plenty of soap and water. Obtain medical attention if irritation persists.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Drink large quantities of water with Milk of Magnesia or other medical antacid. Never give anything by mouth to an unconscious person.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Will not burn.

Flash Point: NA

Flammable Limits: NA

Auto-ignition point: NA

Fire Extinguishing Media: Use ABC type extinguisher for surrounding fires.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and clothing for chemical fires. Wear normal firefighting equipment.

Unusual Fire and Explosion Hazards: None

Hazardous combustion products: ND

DOT Class: ND

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Keep upwind. Keep out of low lying areas. Ventilate closed spaces before entering.

Environmental Precautions: Prevent further leakage or spillage and comply with local, state and federal regulations.

Methods / Materials for Containment & Clean-up: If product is dry, avoid generation of dust during clean-up of spills. Recover the dried product by vacuuming, shoveling or sweeping. Vacuum must be fitted with HEPA filter to prevent release of particulates during clean-up. Liquid product can be wiped or mopped up and disposed of accordingly.

Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

Section 7: Handling and Storage

Precautions to be taken in Handling and Storage:

Handling: Do not breathe dust. Avoid generation of dust during clean-up of spills. Recover the product by vacuuming, shoveling or sweeping. Vacuum must be fitted with HEPA filter to prevent release of particulates during clean-up. Wear suitable protective clothing, gloves and eye/face protection. If airborne dust is generated, use the appropriate NIOSH-approved respiratory protection.

Safe Storage: Strongly hygroscopic, keep in a dry place. Store in original tightly closed container. Keep away from food, drink and animal feeding stuffs. Use care in handling / storage. Store in accordance with local/regional/national/ international regulation. Keep out of reach of children. Always use oldest stock first.

Storage temperature: ND

Storage Pressure: NA

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Adequate general and local exhaust ventilation.

Personal Protection Equipment

Respiratory protection: Use an appropriate NIOSH approved respirator if airborne dust concentrations exceed the appropriate PEL or TLV.

Protective gloves: Nitrile/chemical resistant gloves are recommended. Frequent change is advisable.

Skin protection: Appropriate protective work clothing.

Eye protection: Chemical goggles or safety goggles.

Additional clothing and/or equipment: Safety eyewash station present.

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: White to tan solid

Odor (threshold): odorless (NA)

Specific Gravity (H₂O=1): NA

Vapor Pressure (mm Hg): 1

Vapor Density (air=1): NA

Percent Volatile by volume: NA

Evaporation Rate (butyl acetate=1):

Boiling Point: 2980 °C

Melting point: 2040 °C

pH: 9.4-10.1 @ 20 °C

Solubility in Water: insoluble

Molecular Weight: 101.96 g/mol

Section 10: Stability and Reactivity

Stability: Stable under normal conditions

Conditions to Avoid: Exposure to moisture

Materials to Avoid (Incompatibility): Strong acids, strong bases, oxygen, nitrates, and halogens.

Hazardous Decomposition Products: ND

Hazardous Polymerization: Will not occur

Section 11: Toxicological Information

Results of component acute toxicity test performed—Aluminum Oxide [1344-285-1]:

Oral LD₅₀ (rat): >10,000 mg/kg

Acute toxicity: May cause irritation or burns to eyes, skin and respiratory system.

Skin corrosion/irritant: Irritating to skin

Serious eye damage/irritant: Minimal risk of damage to eyes

Human experience: ND

This product **does not** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

Section 12: Ecological Information

Ecological Information: This product is not expected to be toxic to the environment. Adopt environmental controls to prevent the product from being released into the environment.

Chemical Fate Information: Not readily biodegradable. Not expected to bioaccumulate.

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: ND

Moisten product to be swept.

Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Section 14: Transportation Information

US DOT Information: Proper shipping name: Not regulated

IATA: Proper shipping name: Not regulated

IMO: Proper shipping name: Not regulated

Marine Pollutant: No

Canadian TDG: Proper shipping name: Not regulated

IMDG Page: ND

Limitations: Not regulated/no reportable quantities.

Section 15: Regulatory Information

United States Federal Regulations

SDS complies with OSHA's Hazard Communication Rule 29, CFR 1910.1200.

SARA Title III (Section 313) – contains components subject to annual release reporting requirements; (Section 311/312 Hazards): Acute Health Hazard, Chronic Health Hazard.

RCRA:

TSCA: All components are listed on the TSCA inventory.

CERCLA: None of the components are listed under CERCLA

State Regulations

California Proposition 65: This product contains no chemicals regulated under California Proposition 65.

International Regulations

Canada WHMIS: ND

Europe EINECS Numbers: ND

Section 16: Other Information

Label Information: See section 2

European Risk and Safety Phrases: S36 – Wear suitable protective clothing; S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice; S38 – In case of insufficient ventilation, wear suitable respiratory equipment.

European symbols needed: ND

Canadian WHMIS Symbols: ND

Abbreviations used in this document

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

Disclaimer

Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.