

Safety Data Sheet

Product No. 92090-50 PELCO® Activated Alumina Sorbent

Issue Date (12-18-14)

Review Date (08-31-17)

Section 1: Product and Company Identification

Product Name: PELCO® Activated Alumina Sorbent

Synonym: Alumina, Aluminum oxide.

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

Classification of the substance or mixture:

Not a hazardous substance or mixture

GHS Pictograms: NA

GHS Categories: NA

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

Signal Word: NA

Health Effects:

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

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

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

Results of PBT and vPvB assessment:

PBT: NA

vPvB: NA

Emergency overview

Appearance: Solid pellets, balls

Immediate effects:

Potential health effects

Primary Routes of entry: Ingestion

Signs and Symptoms of Overexposure: ND

Eyes: With pellets not likely to occur, unless contact with dust.

Skin: ND

Ingestion: May be harmful.

Inhalation: With pellets not likely to occur, unless with dust.

Chronic Exposure: ND

Chemical Listed As Carcinogen Or Potential Carcinogen: None.

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 TWA mg/m3	ACGIH TLV mg/m3	NTP	IARC	OSHA regulated
Aluminum oxide (Al ₂ O ₃), hydrate (1333-84-2) EC-No. : 215-691-6 Acute Tox. 4; H332	94- 100	15*	10	No	No	No

H332 - Harmful if inhaled.

*USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) Contact: Flush eyes with water as a precaution

Skin Contact: Wash off with soap and plenty of water

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: ND

Flammable Limits: ND

Auto-ignition point: ND

Fire Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special Fire Fighting Procedures: Special hazards arising from the substance or mixture: Aluminum oxide. Wear self-contained breathing apparatus for firefighting if necessary.

Further information: Do not use halocarbon extinguishers. The product itself does not burn.

Unusual Fire and Explosion Hazards: ND

Hazardous combustion products: ND

DOT Class: None

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Avoid dust formation. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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: Provide appropriate exhaust ventilation at places where dust is formed. Keep container tightly closed in a dry and well-ventilated place. Product is strongly hygroscopic

Storage temperature: No special requirements.

Storage Pressure: Can be stored under vacuum.

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Provide appropriate exhaust ventilation at places where dust is formed.

Personal Protection Equipment

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Protective gloves: Handle with gloves.

Skin protection: Wear appropriate protective clothing as required.

Eye protection: Wear goggles as required

Additional clothing and/or equipment: ND

Exposure Guidelines

See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Solid

Odor (threshold): ND

Specific Gravity (H₂O=1): 4.000 g/cm³

Vapor Pressure (mm Hg): 1 hPa (1 mmHg) at 2,158 °C (3,916 °F)

Vapor Density (air=1): ND

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): ND

Boiling Point: 2,980 °C (5,396 °F)

Freezing point / melting point: 2,040 °C (3,704 °F)

pH: 9.4 - 10.1 at 20 °C (68 °F)

Solubility in Water: Insoluble

Molecular Weight: 101.96 g/mol

Section 10: Stability and Reactivity

Stability: Stable under recommended storage conditions.

Conditions to Avoid: Exposure to moisture. Keep tightly sealed.

Materials to Avoid (Incompatibility): Strong acids, Strong bases, Chlorine trifluoride, Ethylene oxide, Halogenated hydrocarbon, Oxygen difluoride, Sodium nitrate, Vinyl compounds

Hazardous Decomposition Products: ND

Hazardous Polymerization: ND

Section 11: Toxicological Information

Results of component toxicity test performed: Acute toxicity: LD₅₀ Oral - Rat - > 10,000 mg/kg (OECD Test Guideline 401), LC₅₀ Inhalation - Rat - 4 h - > 2.6 mg/l (OECD Test Guideline 403)

Dermal: No data available

Skin corrosion/irritation: Skin – Rabbit: Result: No skin irritation (OECD Test Guideline 404)

Serious eye damage/eye irritation: Eyes – Rabbit, Result: No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitisation: Maximization Test (GPMT) - Guinea pig, Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity: No data available

Carcinogenicity:

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available
Specific target organ toxicity - single exposure: No data available
Specific target organ toxicity - repeated exposure: No data available
Aspiration hazard: No data available
Additional Information: RTECS: BD1200000
Human experience: Cough, chest pain, Difficulty in breathing, Gastrointestinal disturbance.
Liver - Irregularities Evidence - Based on Human Evidence
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:

Toxicity: No toxicity at the limit of solubility

Persistence and degradability: The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulative potential: Does not bioaccumulate.

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: No data available

Chemical Fate Information: ND

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: ND

Offer surplus and non-recyclable solutions to a licensed disposal company.

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: Not dangerous goods

IATA: Not dangerous goods

IMDG: Not dangerous goods

Marine Pollutant: No

Canadian TDG: Not dangerous goods

Section 15: Regulatory Information

United States Federal Regulations

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

SARA: SARA hazard categories (EPCRA 311/312): Acute.

SARA 313: CAS Number, Chemical name; 1333-84-2 Aluminum oxide (Al₂O₃), hydrate

SARA Title III: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

RCRA: ND

TSCA: Released / listed

CERCLA: No

State Regulations

California Proposition 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

International Regulations

Canada WHMIS: ND

Europe EINECS Numbers: 215-691-6

Section 16: Other Information

Label Information: Avoid inhaling dust.

European Risk and Safety Phrases: ND

European symbols needed: ND

Canadian WHMIS Symbols:

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.