



Material Safety Data Sheet

Product No. 19950, 19952, 19960, 19961 Desiccant

Issue Date (07-01-09)

Review Date (06-01-12)

Section 1: Product and Company Identification

Product Name: Desiccant

Synonym: Bulk Desiccant, Drican®, DRI-BOX®, Desiccant in box, Silica Gel Beads, Indicating Silica, amorphous: Silica precipitated and Gel

Company Name

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

Domestic Phone (800) 237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

International Phone (01) (530) 243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

Chemtrec Emergency Number 1-800-424-9300 24 hrs a day.

Section 2: 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	IARC	OSHA regulated
Silica, amorphous (63231-67-4)	>99.7	NE	10*	No	No	No
Cobalt chloride (7646-79-9)	<0.3	NE	0.02**	2B	2B	No

*Silica gel, precipitated, crystalline free, hydrated form.

**Inorganic Cobalt compounds.

Section 3: Hazard Identification

Emergency overview

Appearance: Blue (Dry) or pink beads (exposed to moisture).

Immediate effects: This product contains synthetic amorphous silica; not be confused with crystalline silica such as quartz, cristobalite or tridymite or with diatomaceous earth or other naturally occurring forms of amorphous silica that frequently contain crystalline forms.

Potential health effects

Primary Routes of entry: Inhalation of dust. Ingestion.

Signs and Symptoms of Overexposure: ND

Eyes: May cause irritation, redness and pain.

Skin: May cause irritation with dryness and abrasion.

Ingestion: No adverse effects expected.

Inhalation: May cause dryness and irritation to mucous membranes, nose, and throat. Symptoms may include coughing, sore throat and wheezing.
Chronic Exposure: Repeated exposure may cause symptoms similar to those listed for acute effects. Synthetic amorphous silica does not produce silicosis. Prolonged exposure to some forms of cobalt has been shown to cause cancer in laboratory animals.
Chemical Listed As Carcinogen Or Potential Carcinogen: Cobalt chloride (7646-79-9).
See Toxicological Information (Section 11)

Potential environmental effects

See Ecological Information (Section 12)

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) Contact: If splashed into eyes, open eyelids and rinse with plenty of water to remove dust.

Skin Contact: Wash with plenty of water.

Inhalation: NA

Ingestion: Give plenty of water.

Note to physician

Treatment: The beads are impregnated with cobalt chloride (0.5% p.w.), therefore, induce vomiting if victim has swallowed large quantities.

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: Non-flammable.

Flammable Limits: NA

Auto-ignition point: NA

Fire Extinguishing Media: NA

Special Fire Fighting Procedures: NA

Unusual Fire and Explosion Hazards: When handling near flammable gases or vapors, take precautionary measures against static discharge.

Hazardous combustion products: ND

DOT Class: Not regulated

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Collect material by an appropriate technique.

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: Keep container tightly closed and store in a dry place. When handling near flammable gases and vapors, take precautionary measures against static discharges.

Storage temperature: ND

Storage Pressure: ND

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Ventilation required: Natural ventilation to keep below TLV/TWA (for amorphous silica dust).

Personal Protection Equipment

Respiratory protection: Use a NIOSH approved dust mask if excessive dust is present.

Protective gloves: Working gloves.

Skin protection: Working clothes

Eye protection: Safety glasses

Additional clothing and/or equipment: ND

Exposure Guidelines

See Composition/Information on Ingredients (Section2)

Section 9 Physical and Chemical Properties

Appearance and Physical State: Blue or pink beads.

Odor (threshold): Odorless

Specific Gravity (H₂O=1): NA

Vapor Pressure (mm Hg): NA

Vapor Density (air=1): NA

Bulk Density: 800 kg/m³

Percent Volatile by volume: NA

Evaporation Rate (butyl acetate=1): NA

Boiling Point: NA

Freezing point / melting point: >1000 °C

pH: ND

Solubility in Water: Insoluble

Molecular Weight: ND

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: ND

Materials to Avoid (Incompatibility): ND

Hazardous Decomposition Products: NA

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Results of component toxicity test performed: Cobalt Chloride (7646-79-9): (Oral, Rat):

LD₅₀ = 766 mg/kg.

Human experience: ND

This product **does** contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

Section 12: Ecological Information

Ecological Information: NA

Chemical Fate Information: ND

Section 13 Disposal Considerations

RCRA 40 CFR 261 Classification: ND

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

Domestic shipments only:

IMO: Proper shipping name: Not regulated

Marine Pollutant: None

Canadian TDG: Proper shipping name: Not regulated

Section 15: Regulatory Information

United States Federal Regulations

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

SARA: Yes

SARA Title III: Cobalt chloride (7646-79-9): Section 313.

RCRA: Not listed.

TSCA: Not listed.

CERCLA: NIF

State Regulations

California Proposition 65: This material does not contain compounds known to cause cancer in the State of California.

International Regulations

Canada WHMIS: Materials in this product are listed in the WHMIS inventory.

Europe EINECS Numbers: Silica gel (7631-86-9) EINECS# 231-545-4. Cobalt chloride (7646-79-9) EINECS# 231-589-4.

Section 16: Other Information

Label Information: ND

European Risk and Safety Phrases: ND

European symbols needed: ND

Canadian WHMIS Symbols: ND

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

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

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.

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