

Safety Data Sheet

Product No. 19950, 19952, 19960, 19961 Desiccant

Issue Date (09-17-15)

Review Date (08-31-17)

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

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

GHS Pictograms



GHS09 GHS08

GHS Categories

GHS09 – Environment

Aq. Env. 3, Chronic Tox.

Aq. Env. 4, Chronic Tox.

H412: Harmful to aquatic life with long-lasting effects.

H413: May cause long-lasting harmful effects to aquatic life.

GHS08 – Health Hazard

Carc. 1

H350: May cause cancer by inhalation.

2.2 Label elements

Hazard Pictograms



GHS09 GHS08

Signal Word: DANGER

Hazard Statements

H350 May cause cancer by inhalation.

H412 Harmful to aquatic life with long-lasting effects.

H413 May cause long-lasting harmful effects to aquatic life.

Precautionary Statements:

| | |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P273 | Avoid release to the environment. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P304+P340+P312 | IF INHALED: Remove victim to fresh air and keep at rest in a comfortable position for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists, get medical advice/attention. |

2.3 Other hazards

Health Effects:

NFPA Hazard Rating: ND

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:

PBT: ND

vPvB: ND

Emergency overview

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

Immediate effects: ND

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 dichloride (7646-79-9). 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/m3 | ACGIH TLV mg/m3 | NTP Carcinogen | IARC Carcinogen | OSHA regulated Carcinogen |
|--------------------------------------------------------------------------------|------|----------------------|-----------------------|-------------------|--------------------|---------------------------------|
| Amorphous Silica (7631-86-9) EC-No. 231-545-4 | >99 | NE | 10* | No | No | No |
| Cobalt Dichloride | 0.2- | NE | 0.02** | 2B | 2B | No |

| | | | | | | |
|----------------------------------|-----|--|--|--|--|--|
| (7646-79-9) EC-No. 231-5489-4 | 0.9 | | | | | |
|----------------------------------|-----|--|--|--|--|--|

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

**Inorganic Cobalt compounds.

Section 4: First Aid Measures

If accidental overexposure is suspected

Eye(s) Contact: Treat by thorough irrigation with water, holding eyelids open. If irritation persists, seek medical attention.

Skin Contact: Rinse off with water and soap. If irritation persists, seek medical attention.

Inhalation: Take patient into fresh air; call a doctor if necessary.

Ingestion: Consult a doctor if needed.

Note to physician

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

Section 5: Fire Fighting Measures

Flash Point: NA

Flammable Limits: NA

Auto-ignition point: NA

Fire Extinguishing Media: No restrictions in fire situations; product is not combustible. No unsuitable extinguishing media known.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus.

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

Hazardous combustion products: Cobalt oxide and hydrogen chloride.

DOT Class: Not regulated.

Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled:

Personal precautions: Avoid the formation and deposition of dust. Ensure effective ventilation. Avoid contact with skin and eyes and the inhalation of dust. Use the personal protective equipment listed in Section 8.

Environmental protection measures: Do not empty into drains or waters.

Methods for clean-up: Take up mechanically; avoid dust formation. Fill into labeled, sealable containers.

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: Avoid formation of dust. During processing, ensure efficient exhaust ventilation in the working area. Keep container tightly closed and in a dry place. When handling near flammable gases or 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: NIOSH-approved dust mask if excessive dust is present.

Protective gloves: Natural or butyl rubber, nitrile gloves.

Skin protection: Protective work clothing.

Eye protection: Safety goggles.

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: Blue granules or beads

Odor (threshold): Odorless (NA)

Specific Gravity (H₂O=1): NA

Vapor Pressure (mm Hg): NA

Vapor Density (air=1): NA

Bulk Density: 600-700 kg/m³

Percent Volatile by volume: ND

Evaporation Rate (butyl acetate=1): ND

Boiling Point: ND

Freezing point / melting point: ND

pH: 3.5-8 (in aqueous suspension)

Solubility in Water: 5 g/l

Molecular Weight: ND

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: ND

Materials to Avoid (Incompatibility): ND

Hazardous Decomposition Products: Cobalt oxide and hydrogen chloride during thermal decomposition.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Results of component toxicity test performed:

Acute toxicity – LD50 values:

Amorphous silica Oral (rat): 3160 mg/kg

Cobalt dichloride Oral (rat): 80 mg/kg

Sensitization: Cobalt dichloride can sensitize skin and respiratory passages and cause allergic reactions.

Repeated/prolonged exposure: Repeated intake of cobalt dichloride may cause myocardial damage.

Human experience: ND

This product **does** contain compound(s) listed by NTP or IARC or regulated by OSHA as a carcinogen.

Section 12: Ecological Information

Ecological Information:

Aquatic toxicity (Cobalt dichloride)

Acute fish toxicity: LC50 (Oncorhynchus mykiss): >35.0 mg/l

Acute toxicity – daphnia: ED50 (Daphnia magna): 11.8 mg/l

Toxicity to bacteria: EC50 (Activated sludge): 64.0 mg/l (120 h)

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: Not regulated

IATA: Not regulated

IMO: Not regulated

Marine Pollutant: No

Canadian TDG: Not regulated

Section 15: Regulatory Information

United States Federal Regulations

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

SARA: Yes

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

RCRA: Not listed.

TSCA: All components are listed.

CERCLA: Not listed.

State Regulations

California Proposition 65: Not listed.

International Regulations

Canada WHMIS: ND

Europe EINECS Numbers: See section 3

German regulations

TRGS 900 (Atmospheric Threshold Value), Amorphous Silica [7631-86-9]: 4 mg/m³ Technical Instruction on Air Pollution Control, Cobalt and compounds, stated as Co: Figure 5.2.2, Class II

Water Pollution Class (WGK=Classification in accordance with the German Water Resources Act): 1 – slightly hazardous to water

Section 16: Other Information

Label Information:

European Risk and Safety Phrases:

R 49 - May cause cancer by inhalation.

R 52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S 53 - Avoid exposure - obtain special instructions before use.

S 45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 61 - Avoid release to the environment.

European symbols needed: T (toxic)

Canadian WHMIS Symbols:

Abbreviations used in this document

NE= Not established

NA= Not applicable

NIF= No Information Found

ND= No Data

Disclaimer

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