TED PELLA, INC.
Microscopy Products for Science and Industry

Material Safety Data Sheet
Product No. 19953, 19956, 19956-8 Dricap® Desiccant
Issue Date (03-09-07)
Review Date (06-01-12)

Section 1: Product and Company Identification

Product Name: Dricap® Desiccant
Synonym: 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) in plastic capsule.
Immediate effects: ND
Potential health effects
Primary Routes of entry: ND
Signs and Symptoms of Overexposure: ND
Eyes: No hazard.
Skin: No hazard.
Ingestion: Believed to be not hazardous.
Inhalation: NA
Chronic Exposure: Unknown.
Chemical Listed As Carcinogen Or Potential Carcinogen: Cobalt chloride (7646-79-9).
See Toxicological Information (Section11)

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. High heat can melt the plastic capsule. Do not exceed 110 º C
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 in plastic capsule.
Odor (threshold): Odorless.
Specific Gravity (H_2O=1): NA
Vapor Pressure (mm Hg): NA
Vapor Density (air=1): NA
Bulk Density: 800 kg/m^3
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): NA
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): LD_{50} = 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

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