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.  H412: Harmful to aquatic life with long-lasting effects.
   Aq. Env. 4, Chronic Tox.  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

<table>
<thead>
<tr>
<th>Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)</th>
<th>%</th>
<th>OSHA PEL mg/m3</th>
<th>ACGIH TLV mg/m3</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA regulated Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous Silica (7631-86-9) EC-No. 231-545-4</td>
<td>&gt;99</td>
<td>NE</td>
<td>10*</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Cobalt Dichloride</td>
<td>0.2-</td>
<td>NE</td>
<td>0.02**</td>
<td>2B</td>
<td>2B</td>
<td>No</td>
</tr>
</tbody>
</table>
*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)

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**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

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**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.

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**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.

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**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

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**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.

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**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
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

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