SAFETY DATA SHEET: COBALT NITRATE

1. IDENTIFICATION

Product Name: COBALT NITRATE
Synonyms: Cobalt (II) nitrate; Cobaltous nitrate
Formula and Formula Weight: Co(NO₃)₂·6H₂O 291.04
Integra numbers beginning with: C684.10
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

INTEGRA Chemical Company
24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000

2. HAZARDS IDENTIFICATION

OSHA Classification: Hazard Category: Hazard Statement:
Acute Toxicity - Oral 4 Harmful if swallowed.
Sensitization - Respiratory 1 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Sensitization - Skin 1 May cause an allergic skin reaction.
Germ Cell Mutagenicity 2 Suspected of causing genetic defects.
Carcinogenicity 1B May cause cancer.
Toxic to Reproduction 1B May damage fertility or the unborn child.
Oxidizing Solids 2 May intensify fire; oxidizer.

Signal Word: Danger

Precautionary Statements
Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat.
Keep and store away from clothing, combustible materials.
Take any precaution to avoid mixing with combustibles.
Avoid breathing dust, fume, gas, mist, vapors, spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves, protective clothing, eye protection, face protection.
Wear respiratory protection.

Response
If swallowed: Call a poison center, doctor if you feel unwell.
If on skin: Wash with plenty of water
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
If exposed or concerned: Get medical advice, attention.
Specific treatment (see first aid section on this label)
Rinse mouth.
If skin irritation or a rash occurs: Get medical advice, attention.
If experiencing respiratory symptoms: Call a poison center, doctor
Wash contaminated clothing before reuse.

Storage
Store locked up.

Disposal
 Dispose of contents, container in accordance with all governmental regulations.

Hazards Not Otherwise Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Synonyms</th>
<th>CAS #</th>
<th>% Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cobalt nitrate</td>
<td>Cobalt (II) nitrate; Cobaltous nitrate</td>
<td>10026-22-9</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

OSHA SDS #: 25445 rev 102 1.16.2017 COBALT NITRATE
5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray.
Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
Specific Hazards: Strong oxidizer. Contact with combustible or flammable materials can cause fire or explosion.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Remove all potential ignition sources. Prevent spread of spill. Wear suitable protective equipment. Sweep or scoop into disposal container in a manner that minimizes dust dispersion. Flush residues with water. Do not flush to sewer or storm drain.

Ingestion: Rinse mouth and give victim large quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Skin Contact: Wash with soap and water. Seek medical attention if irritation develops.
Eye Contact: Flush eyes with water for at least 15 minutes. Seek immediate medical attention.
Inhalation: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, call a poison center or doctor.

7. HANDLING AND STORAGE

Incompatible Materials: Combustible or organic materials; reducing agents
Storage and Handling: Store locked up in a cool, dry, well-ventilated area dedicated to the storage of oxidizers. Keep away from incompatible materials, especially flammable or combustible materials. Keep containers tightly closed and protect them from physical damage. Protect material from exposure to air and moisture. Keep away from heat. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat. Keep and store away from clothing, combustible materials.
Take any precaution to avoid mixing with combustibles.
Avoid breathing dust, fume, gas, mist, vapors, spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves, protective clothing, eye protection, face protection. Wear respiratory protection.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:
Cobalt nitrate
OSHA TWA: 0.1 mg/m3 (as Co)   ACGIH TWA: 0.02 mg/m3 (as Co)
Engineering Controls: Use general or local exhaust ventilation to meet TLV and PEL requirements.
Respiratory Protection: Respiratory protection required if airborne concentrations exceed PEL or TLV. Use a NIOSH approved respirator with a particulate filter.
Skin/Eye Protective Equipment: Safety goggles, protective clothing and gloves appropriate for the risk of exposure.
Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Red-brown crystalline powder
Odor: Not available
Odor Threshold: Not available
pH: 4 for a 10% solution at 20°C
Melting/Freezing Point: 55 °C
Initial Boiling Point and Boiling Range: Not available
Flash Point: Not available
Evaporation Rate: Not available
Flammability: Not available
Flammable or Explosive Limits (% by volume in air)
   Upper: Not available
   Lower: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Relative Density: 1.88 g/cc
Solubility: Very soluble in water
Partition Coefficient: n-octanol/water Not available
16. OTHER INFORMATION

OSHA SDS #: 25445 rev 102 1.16.2017

The information presented above is offered for informational purposes only. This SDS, and the associated product, is intended for use only by technically qualified persons, and at their own discretion and risk. Since conditions and manner of use are outside the control of Integra Chemical Company, we make no warranties, either expressed or implied, and assume no liability in connection with any use of this information.

***** END OF SDS *****