# THE HALL CHEMICAL COMPANY
Material Safety Data Sheet

## Section 1 - Identification of Product

<table>
<thead>
<tr>
<th>Supplier's Name</th>
<th>Emergency Telephone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE HALL CHEMICAL COMPANY</td>
<td>CHEMTEC: HALL CHEMICAL:</td>
</tr>
<tr>
<td>28960 LAKELAND BOULEVARD, WICKLIFFE, OHIO 44092-0200</td>
<td>800-424-9900 216-794-8300</td>
</tr>
</tbody>
</table>

### Chemical Name and Synonyms
- Cobalt Carbonate
- Cobalt Carbonate

### Hazardous Material Description and Proper Shipping Name
- (49CFR172.101) N/A

### Chemical Family
- Inorganic Metallic Salt

### Date This Form Prepared
- November 1, 1985

### Prepared By
- J. Gandhi

### CAS Number
- 7542-09-9

## Section 2 - Hazardous Ingredients

### Material or Component
- Cobalt Carbonate 100%

### Occupational Exposure Limits
- OSHA PEL: 0.1 mg/m³ as Cobalt
- ACGIH TWA: No specific TLV established (1985-86)

## Section 3 - Physical Data

### Boiling Point (°F)
- Decomposes

### Vapor Pressure (mm Hg)
- N/A

### Vapor Density (Air=1)
- N/A

### Specific Gravity (Water=1)
- 4.13 g/cc @25°C

### Solubility in Water
- Insoluble

### Appearance and Odor
- Pink powder, odorless

### Flammable Limits
- LEL: N/A

### Flash Point (Method Used)
- Non-Flammable

### Extinguishing Media
- Dry Chemical, CO₂, Water Spray

### Special Fire Fighting Procedures
- Not a fire hazard. Wear self-contained breathing apparatus when large quantities are involved.

### Unusual Fire and Explosion Hazards
- None expected

## Section 4 - Fire and Explosive Data

### Extinguishing Media
- Dry Chemical, CO₂, Water Spray

## Section 5 - Health Hazard Data

### OSHA Permissible Exposure Limit
- 0.1 mg/m³ as Cobalt

### ACGIH TWA
- No specific TLV established (1985-86)

### Effect of Overexposure
- Eye: May cause irritation.
- Inhalation: May cause respiratory tract irritation.
- Skin: May cause dermatitis.
- Ingestion: Toxicity due to ingestion is low.

### Emergency and First Aid Procedures
- Eye Contact: Irrigate with water at least 15 minutes. Consult physician.
- Skin Contact: Remove contaminated clothing. Wash skin thoroughly with soap and water. Consult physician.
- Inhalation: Remove to fresh air. May give oxygen. Consult physician.
- Accidental Ingestion: Induce vomiting if conscious. Consult physician.
SECTION VI - REACTIVITY DATA

<table>
<thead>
<tr>
<th>UNSTABLE</th>
<th>CONDITIONS TO AVOID</th>
</tr>
</thead>
<tbody>
<tr>
<td>STABILITY</td>
<td>N/A</td>
</tr>
<tr>
<td>STABLE - Stable under normal temperature and pressure</td>
<td></td>
</tr>
</tbody>
</table>

| INCOMPATIBILITY (MATERIALS TO AVOID) | None expected |
| HAZARDOUS DECOMPOSITION PRODUCTS | Toxic fumes and metal oxides may be present during decomposition. |

| MAY OCCUR | CONDITIONS TO AVOID |
| POLYMERIZATION | WILL NOT OCCUR |
| | N/A |
| | Not known to occur |

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
- Contain the spill. Pick up the spill in an approved container for disposal.
- Flush area with water.

WASTE DISPOSAL METHOD
- Dispose in accordance with federal, state and local laws.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFIC TYPE)
- Use NIOSH approved respiratory protection where airborne levels exceed appropriate occupational exposure limit.

VENTILATION
- LOCAL EXHAUST: X
- MECHANICAL (GENERAL): X
- SPECIAL: N/A

PROTECTIVE GLOVES
- Wear rubber gloves to avoid skin contact.

EYE PROTECTION
- Wear goggles where eye contact may occur.

OTHER PROTECTIVE EQUIPMENT
- Wear protective coverall as appropriate to avoid skin contact.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTION TO BE TAKEN IN HANDLING AND STORING
- Keep container closed. Protect against physical damage.
- Avoid contact with skin, eyes, clothing.

OTHER PRECAUTIONS
- Avoid breathing and use only with adequate ventilation.
- Wash thoroughly after handling.

ADDITIONAL INFORMATION
- Chronic pulmonary disease has been reported in workers in the cemented tungsten carbide industry where cobalt is used. This effect has not been reported in workers refining or using cobalt metal, cobalt oxide and other compounds of cobalt.
- Toxicity data: ipr Rat - LD₅₀ 2002 mg/kg ipr = intraperitoneal, LD₅₀ = Lowest published lethal dose

ABOVE DATA REFERENCE - REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES 1981-82

Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of the knowledge and belief of The Hall Chemical Co., but is not guaranteed to be so. The Company makes no representations or warranties, express or implied. Customers are encouraged to conduct their own tests.