

# MATERIAL SAFETY DATA SHEET

Cobalt Nitrate

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Cobalt Nitrate  
Product Code: C5890  
Material Uses:  
Manufacturer: Science Stuff  
1104 Newport Ave  
Austin, TX 78753  
(512) 837-6020  
Entry Date : 5/30/2013  
Print Date: 5/30/2013  
24 Hour Emergency Assistance : Chemtrec 800-424-9300  
Canutec 613-996-6666

Health:	2
Flammability:	0
Reactivity:	3
Hazard Rating: Least Slight Moderate High Extreme 0 1 2 3 4 NA=Not Applicable NE=Not Established	

## SECTION 2 HAZARD IDENTIFICATION

Heat, shock, friction, or contact with other materials may cause fire or explosion. Harmful if swallowed. Avoid breathing vapor or dust. Use adequate ventilation. Avoid contact with eyes, skin or clothes. Wash thoroughly after handling. Keep closed.

## SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Cobalt Nitrate	CAS# 10026-22-9	100%	W/W	orl-rat LD <sub>50</sub> : 691 mg/Kg

## SECTION 4 FIRST AID MEASURES

Heat, shock, friction, or contact with other materials may cause fire or explosion. Harmful if swallowed. Avoid breathing vapor or dust. Use adequate ventilation. Avoid contact with eyes, skin or clothes. Wash thoroughly after handling. Keep closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

## SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire  
Fire / Explosion Hazards: Strong oxidizer. Contact with combustible materials may cause a fire. Emits toxic fumes under fire conditions.  
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing

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to prevent contact with skin and clothing.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Evacuate area. Wear self-contained breathing apparatus and protective clothing. Sweep up place in bag and hold for disposal. Ventilate area and wash spill site.

**SECTION 7 HANDLING AND STORAGE**

Store in tightly closed container in cool dry place, away from incompatible materials and combustible materials. Use only polyethylene tools and containers.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory Protection: NIOSH/MSHA-approved respirator  
Ventilation  
Local Exhaust   
Mechanical   
Protective Gloves: Long rubber or neoprene gauntlet gloves  
Eye Protection: Chemical safety goggles  
Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Melting Point:	55 Deg. C	Percent Volatile by Volume:	N/A
Boiling Point:	75 Deg. C	Evaporation Rate	N/A
Vapor Pressure:	N/A	Evaporation Standard	
Vapor Density:	N/A	Auto Ignition Temp	Not applicable
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	red deliquescent crystals, slight nitric odor	Upper Flamm. Limit in Air	Not applicable
Flash Point:	N/A		
Specific Gravity:	1.88		

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability: Stable  
Conditions to Avoid: Avoid contact with incompatible materials.  
Materials to Avoid: Organic compounds, reducing agents, moisture.  
Hazardous Decomposition Products: Nitric oxide  
Hazardous polymerization: Will Not Occur  
Conditions to Avoid: None known

**SECTION 11 Toxicological Information**

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**SECTION 12 Ecological Information**

**SECTION 13 Disposal Considerations**

**SECTION 14 Transport Information**

DOT Classification: Nitrate, Inorganic, n.o.s. (Cobalt Nitrate), 5.1, UN1477, PG III, Marine Pollutant

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

**SECTION 15 Regulatory Information**

**SECTION 16 Additional Information**

Harmful if swallowed. May be harmful if inhaled or absorbed through skin. Material is irritating to mucous membranes and upper respiratory tract. May cause allergic skin reaction. Conditions aggravated: Persons with pre-existing eye, skin, or respiratory condition may be more susceptible. Target organs: Lungs, thyroid.

Flammability

Health

Reactivity

Revisions

NFPA

0.1

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