



MATERIAL SAFETY DATA SHEET  
COMPLIES WITH 29 CFR 1910.1200.  
OSHA HAZARD COMMUNICATION RULE

DATE OF LAST REVISION: 03-16-01

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## CHEMICAL IDENTITY

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LABEL IDENTITY	<b>LANTHANUM STRONTIUM COBALT OXIDE</b>			
CHEMICAL NAME/SYNONYMS	<b>LANTHANUM STRONTIUM COBALT OXIDE</b>			
FORMULA	<b>LaSrCoO3</b>			
HAZARDOUS INGREDIENTS:				
	%:	Oral Toxicity	OSHA PEL	ACGIH TLV
<b>La<sub>2</sub>O<sub>3</sub></b>	<b>57.3</b>	<b>None Reported</b>	<b>NE</b>	<b>NE</b>
<b>SrO</b>	<b>9.1</b>	<b>None Reported</b>	<b>NE</b>	<b>NE</b>
<b>Co</b>	<b>33.6</b>	<b>None Reported</b>	<b>5 mg(Mn)/m<sup>3</sup></b>	<b>5 Mg(Mn)/m<sup>3</sup></b>

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## PHYSICAL AND CHEMICAL PROPERTIES

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COLOR, FORM AND ODOR	<b>Odorless black powder/target</b>
BOILING POINT	<b>NA</b>
MELTING POINT	<b>NA</b>
DENSITY (gm/cc)	<b>NA</b>
VAPOR PRESSURE @ 20°	<b>NA</b>
PH VALUE	<b>NA</b>
WATER SOLUBILITY	<b>Insoluble</b>

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## FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT	<b>NA</b>
FLAMMABILITY	<b>NA</b>
EXTINGUISHING MEDIA	<b>Use suitable means for extinguishing surrounding fire.</b>
SPECIAL FIRE FIGHTING PROCEDURES	<b>Use fire fighting measures that suit the surrounding fire. Do not use water or carbon dioxide as extinguishing agent.</b>
UNUSUAL FIRE & EXPLOSIVE HAZARDS	<b>None</b>



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### HEALTH HAZARD INFORMATION

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TLV: **R&D material, limits not established.**  
EFFECTS OF OVEREXPOSURE (acute and chronic): **R&D material, effects not established**

#### EMERGENCY FIRST AID PROCEDURES:

INGESTION: **Seek immediate medical attention.**

INHALATION: **Remove to fresh air.**

SKIN: **Wash thoroughly with soap and water**

**Seek medical attention in all cases.**

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### REACTIVITY DATA

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**Airborne dust particles, especially metal dust, and accumulation of such should be treated as explosives. To minimize danger from dust explosions, adequate ventilation should be provided to spray booth in accordance with American Welding Society publication AWS2.1-73, and ACGIH publication "Industrial Ventilation".**

**Decomposition will not occur if used and stored according to specifications. Avoid acids, water/moisture.**

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### SAFE HANDLING AND USE

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**Local dust pickup recommended for open flowing powdered products. Wear personal protective equipment to protect health if TLV is exceeded while handling product. Store material in a dry location with adequate support for the weight of the product. Use caution when lifting product cartons not to strain your back muscles. Store material away from ignition sources which could catch packaging materials on fire.**

**Dispose of in containers for recycle or reuse. Do not throw in trash or place in landfill. Refer to government and regional requirements.**

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### SPECIAL PROTECTIVE INFORMATION

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RESPIRATORY PROTECTION

**If there is dustiness, wear a respirator selected per OSHA standards.**

HAND PROTECTION

**Gloves recommended**

EYE PROTECTION

**Splash goggles, safety glasses, or face shields recommended.**

BODY PROTECTION

**An apron, or other impermeable body Protection suggested. Wash any contaminated clothing before reuse.**



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### SPECIAL PRECAUTIONS

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#### PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE:

**Keep in tightly closed container, store in cool dry ventilated area, isolate from incompatible substances.**

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THE ABOVE INFORMATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE THE CONDITIONS OF HANDLING AND USE, OR MISUSE ARE BEYOND OUR CONTROL, **ANGSTROM SCIENCES** MAKE NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR THE RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS PARTICULAR USE.

**NA= NOT APPLICABLE**

**ND= NO DATA FOUND**