



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

**DATE OF LAST REVISION: 03-17-10**

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## CHEMICAL IDENTITY

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LABEL IDENTITY	<b>STRONTIUM TITANATE</b>
CHEMICAL NAME/SYNONYMS	<b>STRONTIUM TITANATE</b>
FORMULA	<b>SrTiO<sub>3</sub></b>
CHEMICAL FAMILY	<b>METAL OXIDE</b>
CAS REGISTRY NUMBER	<b>12060-59-2</b>
HAZARDOUS INGREDIENTS	<b>SrTiO<sub>3</sub></b>
%: <b>100</b> TLV: <b>10mg/m3</b>	OSHA/PEL: <b>15mg/m3</b> CAS: <b>12060-59-2</b>

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## PHYSICAL AND CHEMICAL PROPERTIES

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COLOR, FORM AND ODOR	<b>White gray powder, odorless</b>
BOILING POINT	<b>NA</b>
DENSITY (gm/cc)	<b>NA</b>
VAPOR PRESSURE @ 20°	<b>NA</b>
% VOLATILE BY VOLUME (%)	<b>NA</b>
REACTION WITH WATER	<b>None</b>
EVAPORATION RATE (H <sub>2</sub> O=1)	<b>NA</b>
SOLUBILITY IN WATER	<b>Insoluble</b>
MELTING POINT	<b>NA</b>

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## FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT	<b>NA</b>
AUTOIGNITION TEMPERATURE (° C)	<b>NA</b>
FLAMMABILITY	<b>Non-flammable</b>
EXTINGUISHING MEDIA	<b>Use dry chemical</b>
SPECIAL FIRE FIGHTING PROCEDURES	<b>Wear a self-contained breathing apparatus &amp; should be worn by firemen fighting fires where strontium is stored.</b>
UNUSUAL FIRE & EXPLOSION HAZARDS	<b>Toxic fumes may be evolved if involved in a fire.</b>

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## HEALTH HAZARD INFORMATION

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TOXICITY DATA:	<b>No data established</b>
HMIS RATING:	
HEALTH: <b>2*</b> FLAMMABILITY: <b>1</b> REACTIVITY: <b>0</b> PERSONAL PROTECTION: <b>X</b>	
ROUTES OF ENTRY	INHALATION: <b>Yes</b>
	SKIN: <b>Yes</b>
	INGESTION: <b>No</b>



## STRONTIUM TITANATE MATERIAL SAFETY DATA SHEET

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

EFFECTS OF OVEREXPOSURE (acute and chronic):

INHALATION: **Sr compounds are moderate irritants via oral and inhalation routes.**  
DERMAL/EYE: **Repeated or prolonged contact may cause skin irritation. May also cause eye irritation.**

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CARCINOGENICITY: **No** NTP: IARC MONOGRAPHS: **No** OSHA REGULATE:

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EMERGENCY FIRST AID PROCEDURES:

INGESTION: **Induce vomiting. Seek medical attention.**  
INHALATION: **Remove victim to fresh air. Seek medical attention.**  
SKIN CONTACT: **Remove contaminated clothing. Wash with plenty of soap and water.**  
EYE CONTACT: **Flush eyes for at least 15 minutes with lukewarm water, seek medical.**

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### REACTIVITY DATA

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STABILITY	<b>Stable</b>
CONDITIONS CONTRIBUTING TO UNSTABILITY	<b>Heat</b>
INCOMPATIBILITY (MATERIALS TO AVOID)	<b>Strong acids and strong bases</b>
HAZARDOUS DECOMPOSITION PRODUCTS	<b>Sr</b>
HAZARDOUS POLYMERIZATION	<b>NA</b>

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### SAFE HANDLING AND USE

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

**Vacuum up spill and place in a container for proper disposal. Take care not to raise dust.**

WASTE DISPOSAL METHOD:

**Dispose of in accordance with applicable federal, state, and local regulations.**

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### SPECIAL PROTECTIVE INFORMATION

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RESPIRATORY PROTECTION	<b>Wear NIOSH-approved dust-mist-fume cartridge respirator</b>
LOCAL EXHAUST	<b>Use local ventilation to meet TLV requirements</b>
MECHANICAL (general)	<b>NA</b>
SPECIAL	<b>NA</b>
OTHER	<b>NA</b>
PROTECTIVE GLOVES	<b>Neoprene</b>
EYE PROTECTION	<b>Safety glasses</b>
OTHER PROTECTIVE EQUIPMENT	<b>Wear protective clothing to prevent contamination of skin and clothes</b>



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### SPECIAL PRECAUTIONS

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

**Keep containers closed. Wash hands and face thoroughly after handling material and before eating.**

#### TRANSPORTATION REQUIREMENTS

DOT CLASS:	<b>Not Classified</b>
UN NUMBER:	<b>NC</b>
IMCO CLASS:	<b>NC</b>
OTHER:	----

#### PRECAUTIONARY LABELING

NONE

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NA= NOT APPLICABLE

ND= NO DATA FOUND