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

DATE OF LAST REVISION: 05-15-96

CHEMICAL IDENTITY

LABEL IDENTITY
CHEMICAL NAME/SYNONYMS STRONTIUM TITANATE
FORMULA SrTiO3
CHEMICAL FAMILY METAL OXIDE
CAS REGISTRY NUMBER NA
HAZARDOUS INGREDIENTS SrTiO3
%: 100 TLV: 10mg/m3 OSHA/PEL: 15mg/m3 CAS: 12060-59-2

PHYSICAL AND CHEMICAL PROPERTIES

COLOR, FORM AND ODOR White gray powder, odorless
BOILING POINT NA
DENSITY (gm/cc) NA
VAPOR PRESSURE @ 20° NA
% VOLATILE BY VOLUME (%) NA
REACTION WITH WATER None
EVAPORATION RATE (H20=1) NA
SOLUBILITY IN WATER Insoluble
MELTING POINT NA

FIRE AND EXPLOSION HAZARD DATA

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

HEALTH HAZARD INFORMATION

TOXICITY DATA: No data established

HMIS RATING:
HEALTH: 2* FLAMMABILITY: 1 REACTIVITY: 0 PERSONAL PROTECTION: X

ROUTES OF ENTRY
INHALATION: Yes
SKIN: Yes
INGESTION: No
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.

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

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.

REACTIVITY DATA

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

SAFE HANDLING AND USE

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.

SPECIAL PROTECTIVE INFORMATION

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

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: Not Classified
UN NUMBER: NC
IMCO CLASS: NC
OTHER: ----

PRECAUTIONARY LABELING
NONE

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