

Material Safety Data Sheet

Strontium Titanate Nanopowder

Revision Date: 13/01/2011

Date Issued: 07/01/2008

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name	Strontium Titanate Nanopowder Strontium Titanium Oxide Nanopowder
Product code	NO-0043-HP
CAS	12060-59-2
Supplier	IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D-74076 Heilbronn Germany
Telephone	+49 (0)7131 - 898390
Fax	+49 (0)7131 - 89839109
Emergency telephone	+49 (0)179 – 5322578
Email	msds@iolitec.de

2 COMPOSITION/INFORMATION ON INGREDIENTS

2.1 Classification of the substance or mixture

Not a dangerous substance according to GHS.

This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

Other hazards – none

Material Safety Data Sheet

Strontium Titanate Nanopowder

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3 HAZARDS IDENTIFICATION

Ingredient name	Strontium titanium trioxide
CAS No.	12060-59-2
Empirical Formula	SrTiO ₃
Molecular weight	183.5 amu

4 FIRST AID MEASURES

General	Contaminated clothing should be removed.
Inhalation	Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/oxygen. Seek immediate medical advise.
Ingestion	Get medical attention immediately.
Skin	Wash the skin immediately with soap and water. Seek immediate medical advise.
Eyes	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention immediately.

5 FIRE FIGHTING MEASURES

Extinguishing media	Product is not flammable. Use fire fighting that suit the surrounding fire..
Special fire fighting procedures	None needed.

Material Safety Data Sheet

Strontium Titanate Nanopowder

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Unusual fire & explosion hazards Product does not present an explosion hazard.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions during spill Wear protective clothing and avoid inhalation of vapor, skin or eye contact.

Precautions to protect environment

Avoid washing into water courses. Avoid contaminating public drains or water supply.

Spill cleanup methods

Avoid contact with skin or inhalation of spillage, dust or vapor, Avoid dust formation. Collect and reclaim or dispose in sealed containers in license waste.

7 HANDLING AND STORAGE

Usage precautions

Do not use in confined spaces without adequate ventilation and/or respirator.

Storage precautions

Store in cool, dry, well ventilated area. Do not store together with oxidizing and acidic materials.

Storage criteria

Chemical storage. Store under dry inert gas.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Protective equipment

Safety goggles. Chemical resistant gloves. Protective clothing.

Material Safety Data Sheet

Strontium Titanate Nanopowder

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Process control measures	Provide eyewash station and safety shower. Use engineering controls to reduce air contamination to permissible exposure levels.
Ventilation	Provide adequate general and local exhaust ventilation.
Respirators	Use high efficiency particulate respirator with appropriate filter.
Other protection	Wear overalls and industrial shoes.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	solid
Color	white / grey.
Odor/taste	odorless

10 STABILITY AND REACTIVITY

Stability	No particular stability concerns.
Conditions to avoid	Avoid contact to strong oxidizers and acids.
Hazardous Decomposition Products	Metal oxide fume

11 TOXICOLOGICAL INFORMATION

Ingestion	Strong corrosive effect. Irritation of mouth and throat.
Skin	Corrosive effect on skin and mucous membrans. Irritant to skin and mucous membrans.
Eyes	Strong corrosive effect. Irritant effect.

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12 ECOLOGICAL INFORMATION

Environmental hazards

Avoid washing into water courses. Avoid contaminating public drains or water supply.

13 DISPOSAL CONSIDERATIONS

Disposal method

Contact specialist disposal companies. Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical.

14 TRANSPORT INFORMATION

General

Not classified as dangerous for transport purposes.

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Road transport notes

Not classified as dangerous for road transport.

Rail transport notes

Not classified as dangerous for rail transport.

Sea transport notes

Not classified as dangerous for sea transport.

Air transport notes

Not classified as dangerous for air transport.

15 REGULATORY INFORMATION

In accordance with local and national regulations.

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16 OTHER INFORMATION

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