# **Safety Data Sheet**



# 1: Identification

1.1: Product Identifier Product Name: Sr Product Number(s): 1SR-0001F CAS Number: 7440-24-6 SDS Document Number: 000237 1.2: Recommended Uses and Restrictions Recommended Uses Manufacture of substances Restrictions Not for food or drug use. **1.3: Supplier Contact Information** APL Engineered Materials, Inc. 2401 N. Willow Rd. Urbana, IL 61802 Phone: 217-367-1340 Fax: 217-367-9084 1.4: Emergency Phone Number United States: 800-255-3924 International: +01-813-248-0585 2: Hazards Identification 2.1: Classifications

Skin Corrosion/Irritation - Category 2 Substances which, in contact with water, emit flammable gases - Category 2

2.2: GHS Label Elements

Pictograms



Signal Word: Danger

Hazard Statements

H261: In contact with water releases flammable gases.

H315: Causes skin irritation.

Precautionary Statements

P223: Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P231 + P232: Handle under inert gas. Protect from moisture.

- P264: Wash hands thoroughly after handling.
- P280: Wear protective gloves, clothing, and eyewear. face protection
- P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
- P321: Specific treatment. Call a physician or poison control center.
- P332 + P313: If skin irritation occurs: Get medical advice/attention.
- P335 + P334: Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
- P362: Take off contaminated clothing and wash before reuse.
- P370 + P378: In case of fire: Use Special powders for metal fires for extinction.
- P402 + P404: Store in a dry place. Store in a closed container.
- P501: Dispose of contents/container to licensed disposal facility.
- 2.3: Hazards Not Otherwise Classified or Not Covered by GHS
  - Reacts violently with water
- 2.4: Amount(s) of substances with unknown toxicity

#### None

3: Com	position	/Infor	mation	on	Ingredients
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3.1: .Ingredient Sr	.Weight% 100	.Formula Sr	.CAS Number 7440-24-6	.Mol Wt 87.62	.EC Number 231-133-4			
3.2: Other Hazardous components								
none								
3.3: Trade Secret Disclaimer								
none								
3.4: Synonyms								
Strontium								

# 4: First Aid Measures

## 4.1: First Aid

## General

Remove person from area of exposure and remove any contaminated clothing

Consult with physician and provide this Safety Data Sheet

In contact with eyes

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention if irritation develops or persists

In contact with skin

Wash thoroughly with soap and plenty of water. Remove all contaminated clothing for proper laundering. Seek medical attention if irritation develops or persists.

## If swallowed

If conscious and alert, rinse mouth and drink 2-4 cupfuls of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical aid.

If inhaled

Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

- 4.2: Most important symptoms and effects; acute and delayed Causes skin irritation
- 4.3: Indication of any immediate medical attention and special treatment needed no data available

# **5:** Fire Fighting Measures

5.1: Fire extinguishing media

Do not use water drv chemical

class D metal fire agent

- 5.2: Specific hazards arising from the substance or mixture generates flammable hydrogen gas in contact with water
- 5.3: Special protective equipment and precautions for firefighters. Wear self contained breathing apparatus for fire fighting if necessary

# 6: Accidental Release Measures

6.1: Personal precautions, protective equipment, and emergency procedures.

Ensure adequate ventilation.

For personal protection see section 8.

Avoid breathing dust.

Evacuate personnel to safe areas.

Avoid dust formation.

Use personal protective equipment.

6.2: Methods and materials for containment and cleaning up.

Sweep up and shovel.

Keep in suitable, closed containers for disposal.

# 6.3: Environmental precautions

Do not let product enter drains.

# 6.4: Disposal

See section 13.

Dispose of in accordance with local regulations.

# 7: Handling and Storage

# 7.1: Precautions for safe handling

Avoid contact with skin and eyes.

Avoid formation of dust and aerosols.

See precautionary statements in section 2.2.

Provide appropriate exhaust ventilation at places where dust is formed.

# 7.2: Conditions for safe storage Store away from moisture.

Store under inert gas. Keep container tightly closed.

Store in a dry and well-ventilated place.

# 7.3: Incompatibilities

strong oxidizing agents moisture sensitive acids

# 8: Exposure Controls/Personal Protection

# 8.1: Control parameters

OSHA permissible exposure limit (PEL)

not listed

ACGIH threshold limit value (TLV)

not listed

NIOSH recommended exposure limit (REL)

not listed

## 8.2: Engineering controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower Use adequate ventilation to keep airborne concentrations low

## 8.3: Personal protective equipment

Eyes

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

Skin

Wear appropriate, chemical-resistant protective gloves to prevent skin exposure.

Clothing

Wear appropriate protective clothing to prevent skin exposure

## Respirator

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary

# 9: Physical and Chemical Properties

# 9.a: Appearance

State: Solid Form: Pieces

Color: White to yellow to gold

- 9.b: Odor: no data available
- 9.c: Odor threshold: no data available
- 9.d: pH: no data available
- 9.e: Melting point / freezing point: 777 °C (1431 °F)
- 9.f: Initial boiling point and range: 1382 °C (2520 °F)

- 9.g: Flashpoint: no data available
- 9.h: Evaporation rate: no data available
- 9.i: Flammability (solid, gas): no data available
- 9.j: Upper/lower flammability or explosive limits: no data available
- 9.k: Vapor pressure: 0 hPa
- 9.1: Vapor density: no data available
- 9.m: Relative density: 2.64 g/cm<sup>3</sup> (22.031 lbs/gal)
- 9.n: Water Solubility: Contact with water releases flammable gases
- 9.0: Partition coefficient: n-octanol/water: no data available
- 9.p: Auto-ignition temperature: no data available
- 9.q: Decomposition temperature: no data available
- 9.r: Viscosity: no data available

# **10: Stability and Reactivity**

#### 10.1: Reactivity

In contact with water releases flammable gases which may ignite spontaneously

10.2: Chemical stability

Stable under recommended storage conditions.

- 10.3: Possibility of hazardous reactions Contact with water releases flammable gases Reacts with strong oxidizing agents
- 10.4: Conditions to avoid exposure to water
- 10.5: Incompatible materials See section 7.3.

Water

## 10.6: Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5.2

# **11: Toxicological Information**

## 11.1: Toxicity data

Acute toxicity - Oral no data available Acute toxicity - Dermal no data available Acute toxicity - Inhalation No data available. Skin corrosion/irritation May cause irritation

Eye damage/irritation

No data available.

Respiratory irritation

No data available.

Germ cell mutagenicity

no data available

Reproductive toxicity

no data available

Specific organ toxicity - single exposure

No data available.

#### Specific organ toxicity - repeated exposure

No data available.

#### Aspiration hazard

No data available.

Additional information

No data available.

ACGIH carcinogenicity

The ACGIH has not identified any component of this product present at levels greater than or equal to 0.1% as a probable, possible or confirmed human carcinogen.

#### IARC carcinogenicity

The IARC has not identified any component of this product present at levels greater than or equal to 0.1% as a probable, possible or confirmed human carcinogen.

#### NTP carcinogenicity

The NTP has not identified any component of this product present at levels greater than or equal to 0.1% as a probable, possible or confirmed human carcinogen.

#### OSHA carcinogenicity

OSHA has not identified any component of this product present at levels greater than or equal to 0.1% as a probable, possible or confirmed human carcinogen.

## 11.2: Routes of exposure

See section 2.2

#### 11.3: Symptoms of exposure

See section 4.2

## 11.4: Delayed and immediate effects of esposure

To the best of our knowledge the toxicological properties have not been thoroughly investigated.

# **12: Ecological Information**

## 12.1: Ecotoxicity

Toxicity to fish

No data available

Toxicity to daphnia and other aquatic invertebrates

No data available

Toxicity to algae/bacteria

No data available

## 12.2: Persistence and degradability

no data available

12.3: Bioaccumulative potential

Cyprinus carpio (Carp) - 17.5 d - 1,000 µg/l Bioconcentration factor (BCF): 9.5

- 12.4: Mobility in soil no data available
- 12.5: Other effects no data available

# **13: Disposal Considerations**

- 13.1: Waste treatment methods No data available
- 13.2: Safe handling

See section 7.1.

13.3: Product disposal

Contact a licensed professional waste disposal service to dispose of this material.

13.4: Packaging disposal

Dispose of as unused product.

# **14: Transport Information**

## 14.1: DOT(US)

UN Number: 3208 Proper Shipping Name: Metallic substance, water-reactive, n.o.s. (strontium) Packing Group: II Shipping Class(es): 4.3 Marine Pollutant: No

## 14.2: IMDG

UN Number: 3208

Proper Shipping Name: METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S. (strontium) Packing Group: II Shipping Class(es): 4.3 Marine Pollutant: No

## 14.3: IATA

UN Number: 3208 Proper Shipping Name: METALLIC SUBSTANCE, WATER-REACTIVE, N.O.S. (strontium) Packing Group: II Shipping Class(es): 4.3

# 14.4: Special Shipping Precautions

In contact with water emits flammable gases.

# **15: Regulatory Information**

#### 15.1: TSCA inventory

This material is listed on the TSCA inventory.

#### 15.2: SARA 302 components

This material is not subject to the reporting requirements of SARA Title III, Section 302.

#### 15.3: SARA 313 components

This material is not subject to the reporting requirements of SARA Title III, Section 313.

#### 15.4: SARA 313/312 hazards

Chronic health hazard.

Acute health hazard.

Reactivity hazard.

#### 15.5: Other information

Pennsylvania Right To Know Components -This product does not contain materials listed on the Pennsylvania Right to Know list

California Prop. 65 Components - This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

New Jersey Right To Know Components -This product contains materials listed on the New Jersey Right to Know list

Massachusetts Right To Know Components - This product does not contain materials listed on the Massachusetts Right to Know list

# **16: Additional Information**

## 16.1: NFPA

Health: 2 Fire: 0 Reactivity: 2 Special: \#

#### 16.2: HMIS

Health: 2

Chronic: \*

Flammability: 3

Physical Hazard: 2

#### 16.3: Disclaimers

For industrial use only. Not for drug, household or other uses

The information herein is believed to be accurate and reliable as of the date compiled. However, APL Engineered Materials, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.

#### 16.4: References

Information contained on this SDS sheet was obtained from some or all of the following sources: American Conference of Governmental Industrial Hygienists (ACGIH), TLVs and BEIs; National Institute for Occupational Safety and Health (NIOSH), Pocket Guide to Chemical Hazards: European Chemicals Agency, http://echa.europa.eu/; The National Institute of Health, U.S National Library of Medicine, TOXNET, Toxicology Data Network; and the Registry of Toxic Effects of Chemical Substances (RTECS) database.

# 16.5: Version

Preparation Date: 5/22/2015 Revision Date: 5/22/2015 Version Number: GHS 1.0