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MATERIAL SAFETY DATA SHEET

Date Created: 3/28/2002

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SECTION 1-----CHEMICAL IDENTIFICATION-----

Product Number: SR-ACAC-01-P

Product Name: Strontium Acetylacetonate Powder

SECTION 2 ----- COMPOSITION/INGREDIENT INFORMATION-----

CAS #: 12193-47-4

EINECS Number: 235-366-2

SECTION 3 ----- HAZARDS IDENTIFICATION-----

Hazard description: Not applicable

Information pertaining to particular dangers for man and environment

Not applicable

Classification system

HMIS ratings (scale 0-4)

(Hazardous Materials Identification System)

HEALTH

FIRE

REACTIVITY

1

1

1

Health (acute effects) = 1

Flammability = 1

Reactivity = 1

SECTION 4 ----- FIRST-AID -----

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing Seek medical treatment.

SECTION 5 ----- FIRE FIGHTING MEASURES -----

Suitable extinguishing agents

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

SECTION 6-----ACCIDENTAL RELEASE -----

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting: Pick up mechanically.

Additional information:

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7 -----HANDLING AND STORAGE -----

Handling

Information for safe handling:

Handle under dry protective gas.

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

No special precautions are necessary if used correctly.

Information about protection against explosions and fires:

No information known.

Storage

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Store away from oxidizing agents.

Store away from strong bases.

Store away from water/moisture.

Store away from reducing agents.

Further information about storage conditions:

Store under dry inert gas.

This product is moisture sensitive.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Protect from humidity and water.

SECTION 8 ----- EXPOSURE CONTROLS/PERSONAL PROTECTION -----

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with limit values that require monitoring at the workplace:

Not required.

Additional information: No data

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Breathing equipment:

Use suitable respirator when high concentrations are present.

Protection of hands: Impervious gloves

Eye protection: Safety glasses

Body protection: Protective work clothing.

SECTION 9 ----- PHYSICAL AND CHEMICAL PROPERTIES -----

General Information

Form: Powder

Color: White

Off-white

Odor: Odorless

Change in condition

Melting point/Melting range: Not determined

Boiling point/Boiling range: Not determined

Sublimation temperature / start: Not determined

Flash point: Not applicable

Flammability (solid, gaseous) Product is not flammable.

Ignition temperature: Not determined

Decomposition temperature: Not determined

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined

Upper: Not determined

Vapor pressure: Not determined

Density: Not determined

Solubility in / Miscibility with

Water: Insoluble

SECTION 10 -----STABILITY/ REACTIVITY -----

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

Materials to be avoided:

Oxidizing agents

Acids

Reducing agents

Bases

Water/moisture

Dangerous reactions No dangerous reactions known

Dangerous products of decomposition:

Carbon monoxide and carbon dioxide

Metal oxide fume

SECTION 11 ----- TOXICOLOGICAL INFORMATION -----

Acute toxicity:

Primary irritant effect:

on the skin: May cause irritation

on the eye: May cause irritation

Sensitization: No sensitizing effects known.

Subacute to chronic toxicity:

Strontium has a low order of toxicity. As with calcium, the toxicity is generally a function of the anion.

Subacute to chronic toxicity:

2,4-Pentanedione (acetylacetone), if present or released, is harmful if swallowed, irritates the skin, and severely irritates the eyes. 2,4-Pentanedione has caused mutagenic and reproductive effects in laboratory animals and is also flammable. No information is known about the amount of free 2,4-pentanedione present in or released by this compound.

Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

SECTION 12 -----ECOLOGICAL INFORMATION -----

General notes:

Do not allow material to be released to the environment without proper governmental permits.

SECTION 13 -----DISPOSAL CONSIDERATIONS -----

Recommendation

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

SECTION 14 -----TRANSPORT INFORMATION -----

Not a hazardous material for transportation.

DOT regulations:

Hazard class: None

Land transport ADR/RID (cross-border)

ADR/RID class: None

Maritime transport IMDG:

IMDG Class: None

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: None

Transport/Additional information:

Not dangerous according to the above specifications.

SECTION 15 -----REGULATORY INFORMATION -----

Product related hazard informations:

Observe the general safety regulations when handling chemicals

National regulations

This product is not listed in the U.S. Environmental Protection Agency

Toxic Substances Control Act Chemical Substance Inventory. Use of this

product is restricted to research and development only.

Some or all of the components of this product are not listed on the

Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic

Substances List (NDSL).

Information about limitation of use:

For use only by technically qualified individuals.

SECTION 16.-----OTHER INFORMATION-----

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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