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Material Safety Data Sheet

acc. to OSHA and ANSI

Printing date 05/30/2000

Reviewed on 05/05/2000

1 Identification of substance:

- **Product details:**

- **Trade name:** Scandium ingot

- **Stock number:** 40229

- **Manufacturer/Supplier:**

Alfa Aesar, A Johnson Matthey Company
Johnson Matthey Catalog Company, Inc.
30 Bond Street
Ward Hill, MA 01835-8099
Emergency Phone: (978) 521-6300
CHEMTREC: (800) 424-9300
Web Site: www.alfa.com

- **Information department:** Health, Safety and Environmental
Department

- **Emergency information:**

During normal hours the Health, Safety and Environmental
Department. After normal hours call Chemtrec at (800)
424-9300.

2 Composition/Data on components:

- **Chemical characterization:**

Description: (CAS#)

Scandium (CAS# 7782-49-2)

- **Identification number(s):**

- **EINECS Number:** 231-129-2

3 Hazards identification

- **Hazard description:** · Not applicable
- **Information pertaining to particular dangers for man and environment**

Not applicable

4 First aid measures

- **General information** No special measures required.
- **After inhalation** Seek medical treatment in case of complaints.
- **After skin contact** Generally the product does not irritate the skin.
- **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** Seek medical treatment.

5 Fire fighting measures

- **Suitable extinguishing agents**

Special powder for metal fires. Do not use water.
- **For safety reasons unsuitable extinguishing agents**

Water
Halogenated extinguisher
- **Special hazards caused by the material, its products of combustion or**

resulting gases:
Powder: highly flammable
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.

- **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.

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 special measures required.

- **Storage**

- **Requirements to be met by storerooms and receptacles:**

No special requirements.

- **Information about storage in one common storage facility:**

Do not store together with oxidizing and acidic materials.

Store away from halogens.

Store away from air.

Store away from water/moisture.

- **Further information about storage conditions:**

Store in petroleum or under dry argon.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:**

No further data; see item 7.

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.

- **Breathing equipment:** Not required.

- **Protection of hands:** Not required.

- **Eye protection:** Safety glasses

- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

- **Form:** Solid mass

- **Color:** Silver grey

- **Odor:** Odorless

- | <u>Method</u> | <u>Value/Range</u> | <u>Unit</u> |
|---------------|--------------------|-------------|
|---------------|--------------------|-------------|

- **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.
Powder: highly 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:** Decomposes

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
Decomposition will not occur if used and stored according to

specifications.

- **Materials to be avoided:**

Acids
Oxidizing agents
Water/moisture
Air
Halogens

- **Dangerous reactions**

Powder: contact with water liberates extremely flammable gases.

- **Dangerous products of decomposition:** Metal oxide fume

11 Toxicological information

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** Powder: irritant effect

- **on the eye:** Powder: irritant effect

- **Sensitization:** No sensitizing effects known.

- **Subacute to chronic toxicity:**

Scandium has a low order of toxicity. As with calcium, the toxicity is generally a function of the anion. Tantalum compounds may cause skin and eye irritation.

- **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.

12 Ecological information:

- **General notes:**

Do not allow material to be released to the environment

without proper governmental permits.

13 Disposal considerations

- **Product:**

- **Recommendation**

Consult state, local or national regulations for proper disposal.

- **Uncleaned packagings:**

- **Recommendation:**

Disposal must be made according to official regulations.

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.

15 Regulations

- **Product related hazard informations:**

Observe the general safety regulations when handling chemicals

- **National regulations**

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory.

- **Information about limitation of use:**

For use only by technically qualified individuals.

• **16 Other information:**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

- **Department issuing MSDS:** Health, Safety and Environmental Department.

- **Contact:** Darrell R. Sanders