# OTTO CHEMIE PVT LTD

201, 51-53 Maroo Bhavan, Kalbadevi, Mumbai - 400002, India. Tel: + 91 22 2207 0099 / 6638 2599 Email: info@ottokemi.com, Web: www.ottokemi.com

---ISO 9001: 2015----

## **MATERIAL SAFETY DATA SHEET**

1.Identification

1.1GHS Product identifier Scandium powder, 99.9% Code S 4005

2.Hazard identification

2.1Classification of the substance or mixture

Flammable solids, Category 1

2.2GHS label elements, including precautionary statements

Pictogram(s)

Signal word

H228 Flammable solid Hazard statement(s)

Precautionary statement(s)

Prevention

Danger

P210 Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

P240 Ground and bond container and receiving equipment. P241 Use explosion-proof [electrical/ventilating/lighting/...]

equipment.

P280 Wear protective gloves/protective clothing/eye

protection/face protection.

P370+P378 In case of fire: Use ... to extinguish. Response

Storage none Disposal none

2.3Other hazards which do not result in classification

3. Composition/information on ingredients

5. Toubstances					
Chemical name	Common names and synonyms	CAS number	EC number	Concentration	
scandium atom	scandium atom	7440-20-2	none	100%	

- 4.First-aid measures
- 4.1Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2Most important symptoms/effects, acute and delayed

no data available

4.3Indication of immediate medical attention and special treatment needed, if necessary

no data available

5. Fire-fighting measures

5.1Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2Specific hazards arising from the chemical

no data available

#### 5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

## 6.Accidental release measures

6.1Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6 2Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

## 7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8.Exposure controls/personal protection

8.1Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3Individual protection measures, such as personal protective equipment (PPE)

Eve/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards

no data available

# 9. Physical and chemical properties

grey Powder Physical state Colour no data available no data available Melting point/ freezing point 1539\u00baC Boiling point or initial boiling 2836\u00b0C(lit.) point and boiling range

Flammability

no data available Lower and upper explosion no data available

limit / flammability limit

Flash point no data available Auto-ignition temperature no data available Decomposition temperature no data available рΗ no data available Kinematic viscosity no data available Solubility no data available Partition coefficient nno data available

octanol/water (log value)

Vapour pressure no data available

2.99g/mLat 25\u00b0C(lit.) Density and/or relative

Relative vapour density no data available Particle characteristics no data available

10. Stability and reactivity

10.1Reactivity no data available 10.2Chemical stability Stable under recommended storage conditions.

10.3Possibility of hazardous reactions

no data available

10.4Conditions to avoid

no data available

10.5Incompatible materials

no data available

10.6Hazardous decomposition products

no data available

## 11.Toxicological information

Acute toxicity
Oral: no data available Inhalation: no data available Dermal: no data available Skin corrosion/irritation no data available Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available Germ cell mutagenicity no data available Carcinogenicity no data available Reproductive toxicity no data available STOT-single exposure no data available STOT-repeated exposure

no data available

Aspiration hazard no data available

## 12. Ecological information

12.1Toxicity

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

12.2Persistence and degradability

no data available

12.3Bioaccumulative potential

no data available

12.4Mobility in soil

no data available

12.50ther adverse effects

no data available

## 13.Disposal considerations

# 13.1Disposal methods

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems. Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14. Transport information

14.1UN Number

ADR/RID: UN3089 IMDG: UN3089 IATA: UN3089

14.2UN Proper Shipping Name
ADR/RID: METAL POWDER, FLAMMABLE, N.O.S. IMDG: METAL POWDER, FLAMMABLE, N.O.S. IATA: METAL POWDER, FLAMMABLE, N.O.S. 14.3Transport hazard class(es)

ADR/RID: 4.1 IMDG: 4.1 IATA: 4.1

14.4Packing group, if applicable

ADR/RID: II IMDG: II IATA: II 14.5Environmental hazards

ADR/RID: no IMDG: no IATA: no

14.6Special precautions for user

no data available

14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code no data available

# 15.Regulatory information

15.1Safety, health and environmental regulations specific for the product in question

10. Todioty; nodici and on monimonial regulations opening for the product in question					
Chemical name	Common names and synonyms	CAS number	EC number		
scandium atom	scandium atom	7440-20-2	none		
European Inventory of Existing Commercial Chemical Substances (EINECS)					
EC Inventory					
United States Toxic Substances Control Act (TSCA) Inventory					
China Catalog of Hazardous chemicals 2015					
New Zealand Inventory of Chemicals (NZIoC)					
Philippines Inventory of Chemicals and Chemical Substances (PICCS)					
Vietnam National Chemical Inventory					
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)					

## **Section 16: Other Information**

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

