
Section 1: Chemical Product and Company Identification**1.1 Product identifiers**

Product name : **Rhenium**

CAS-No. : 7440-15-5
TSCA : TSCA 8(b) inventory: Rhenium;
Chemical Formula : Re
Chemical Name : Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against
Laboratory chemicals, Manufacture of substances**1.3 Contact Information**

Company : Platotex Technology Company Ltd.
Level 21, The Centre 99 Queen's Road Central,
Central, Hong Kong

Tell : +852 2371-7679
Fax : +852 2579-0808

Section 2: Composition and Information on Ingredients**2.1 Composition**

Name : Rhenium
CAS-No. : 7440-15-5
% By Weight : 100

2.2 Toxicological Data on Ingredients

Not applicable.

Section 3: Hazards Identification**3.1 Classification of the substance or mixture**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Flammable solids (Category 1)
Classification according to EU Directives 67/548/EEC or 1999/45/EC.
Highly flammable.

3.2 Hazard statement(s)

Flammable solid.

3.3 Potential Chronic Health Effects

Carcinogenic Effects : no data available
Mutagenic Effects : no data available
Teratogenic Effects : no data available
Developmental Toxicity : no data available

Section 4: First Aid Measures**4.1 Eye Contact**

Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used.

4.2**Inhalation**

Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.

4.3**Ingestion**

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

4.4**Skin Contact**

No known effect on skin contact, rinse with water for a few minutes.

Section 5: Fire and Explosion Data

Flammability of the Product : Flammable.
Extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from :

the substance or mixture : Rhenium oxides
Advice for firefighters :
Further information : Wear self-contained breathing apparatus for fire fighting if necessary. Use water spray to cool unopened containers.

Section 6: Accidental Release Measures

6.1 Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

6.2

Large Spill:

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end uses

no data available

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

8.2 Personal Protection

Safety glasses. Lab coat.

8.3 Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

8.4 Exposure Limits

no data available

Section 9: Physical and Chemical Properties

Appearance : Solid
Color : Grey
Odor : no data available
Odor Threshold : no data available
PH : no data available
Melting point/freezing point : 3.180 °C - lit.
Boiling point : 5.627 °C - lit.
Flash point : not applicable
Specific Gravity : 1 (Water = 1) (Water)
Evaporation rate : no data available
Flammability (solid, gas) : The substance or mixture is a flammable solid with the category 1.
Upper/lower flammability or Explosive limits : no data available
Vapor pressure : 17.535 mm of Hg (@ 20°C) (Water)
Vapor density : 0.62 (Air = 1) (Water)
Relative density : 21,02 g/cm³
Solubility : Easily soluble in cold water.

Section 10: Stability and Reactivity Data

Stability : The product is stable.
Instability Temperature : no data available
Conditions of Instability : no data available
Incompatibility with various Substances : Reactive with alkalis.
Corrosivity : Highly corrosive in presence of aluminum, of zinc, of copper. Corrosive in presence of steel. Slightly corrosive to corrosive in presence of stainless steel (304), of stainless steel (316). Non-corrosive in presence of glass.
Special Remarks on Reactivity : no data available
Special Remarks on : no data available

Corrosivity : N/a
Polymerization

Section 11: Toxicological Information**11.1 Information on toxicological effects****Acute toxicity**

LD50: Not available. LC50: Not available.

Routes of Entry

no data available

Chronic Effects on Humans

no data available

Other Toxic Effects on Humans

no data available

Carcinogenicity

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Special Remarks on other Toxic Effects on Humans

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: VI0780000

Section 12: Ecological Information

Eco toxicity	:	no data available
BOD5 and COD	:	no data available
Products of Biodegradation	:	Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise.
Toxicity of the Products of Biodegradation	:	The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation	:	no data available
Other adverse effects	:	no data available

Section 13: Disposal Considerations**13.1 Waste treatment methods****Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information

UN number	:	ADR/RID: 3089 IMDG: 3089 IATA: 3089
UN 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.
DOT Classification	:	Not a DOT controlled material (United States).
Identification	:	no data available
Special Provisions for	:	no data available

Section 15: Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

15.2

Chemical Safety Assessment

no data available

Section 16: Other Information

N/A