
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Rhenium, rhenium metal, Re

CAS No.: 7440-15-5

1.2. Relevant identified uses of the substance and uses advised against

- superalloys

1.3. Details of the manufacturer of the substance:

Metraco S.A.

ul. Św. M. Kolbe 9

59-220 Legnica

Tel. +48 (76) 866 77 00

Fax: +48 (76) 866 77 09

Person responsible for the safety data sheet: Kamil Kozub e-mail: kamil.kozub@metraco.plDetails of the supplier of the safety data sheet:

KGHM Polska Miedź S.A.

"GłOGÓW" Copper Smelter and Refinery

ul. Żukowicka 1

67-200 Głogów, Poland

1.4. Emergency telephone number

Emergency information service is not required.

SECTION 2: Hazards identification

2.1. Classification of the substance

Based on the available data, the substance has not been classified as hazardous by application of the classification rules in Regulation (EC) No 1272/2008

2.2. Label elements

The substance does not require labelling in accordance with Regulation (EC) No 1272/2008.

2.3. Other hazards

No other hazards known.

SECTION 3: Composition/information on ingredients

3.1. Substances

Rhenium, Re – min. 99,9% (pellets), min. 99,7% (powder).

3.2. Mixtures

Not relevant.

SECTION 4: First aid measures

4.1. Description of first aid measures

No first aid measures required.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

No medical attention/special treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Class ABC fire extinguishers (dry chemicals, carbon dioxide, sodium carbonate, ammonium phosphate, foam).

5.2. Special hazards arising from the substance

No special hazards known.

5.3. Advice for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No personal precautions, protective equipment or emergency procedures required.

6.2. Environmental precautions

No special environmental precautions required.

6.3. Methods and material for containment and cleaning up

Spilled material sweep up, then clean the remaining with damp cloth. Spills place into a plastic closed container.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

When handling of the substance in powder form avoid dust generation.

However the substance is believed to be non-hazardous, it is recommended to wear protective gloves, eyeglasses and dust-tight clothes when handling the substance.

Do not eat, drink and smoke in work areas. Wash hands after use.

Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Store in a tightly sealed plastic containers in a cool and dry place. To avoid contamination store in original gastight bags in argon atmosphere.

Keep away from heat, sparks and flame.

7.3. Specific end use(s)

Not relevant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Not relevant.

8.2. Exposure controls

Not relevant.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) appearance – solid, grey powder or tablets (pellets)

b) odour – not perceptible

c) pH – not determined

- d) melting point – 3180°C
- e) boiling point – 5630°C
- d) flammability – not flammable
- e) explosive properties – not explosive
- f) relative density – 7,6 -7,8 g/cm³ (pellets)
- g) bulk density ~ 3 g/cm³ (powder)
- h) solubility in water – insoluble

9.2. Other information

No data

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazards are known for the substance.

10.2. Chemical stability

The substance is stable under normal ambient, storage and handling conditions of temperature and pressure.

10.3. Possibility of hazardous reactions

No conditions under which hazardous reactions may occur are known.

10.4. Conditions to avoid

No conditions to avoid known.

10.5. Incompatible materials

Substance is compatible with most widely used materials.

10.6. Hazardous decomposition products

The only decomposition product is rhenium oxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

(a) acute toxicity

Data lacking.

(b) skin corrosion/irritation

Data lacking.

(c) serious eye damage/irritation

Data lacking.

(d) respiratory or skin sensitisation

Data lacking.

(e) germ cell mutagenicity

Data lacking.

(f) carcinogenicity

Data lacking.

(g) reproductive toxicity

Data lacking.

(h) STOT-single exposure

Data lacking.

(i) STOT-repeated exposure

Data lacking.

(j) aspiration hazard

Data lacking.

SECTION 12: Ecological information

12.1. Toxicity

Not classified as hazardous to the aquatic environment.

12.2. Persistence and degradability

Not classified.

12.3. Bioaccumulative potential

Not classified.

12.4. Mobility in soil

Not classified.

12.5. Results of PBT and vPvB assessment

Not classified.

12.6. Other adverse effects

No adverse effects known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste substance should be sent to manufacturer for recovery.

Small quantities of waste substance may be disposed.

Waste containers should be recycled according to local waste regulations.

SECTION 14: Transport information

14.1. UN number

Not relevant.

14.2. UN proper shipping name

Not relevant.

14.3. Transport hazard class(es)

The substance has not been classified as hazardous for transporting.

14.4. Packing group

Not relevant.

14.5. Environmental hazards

The substance is not classified as environmentally hazardous according to the criteria of the UN Model Regulations.

14.6. Special precautions for user

No special precautions required.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

The substance is not intended to be carried in bulk.

SECTION 15: Regulatory information

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

Not relevant.

15.2. Chemical safety assessment

Chemical safety assessment has been performed for the substance.

SECTION 16: Other information

The substance has been registered in the European Chemicals Agency according to Regulation (EC) No 1907/2006 (REACH) under the number: **01-2120006550-73-0000**.