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

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**1.1. Product identifier**

Ammonium perrhenate, ammonium tetraoxorhenate (VII), APR

CAS No.: 13598-65-7

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

- as an intermediate in the production of rhenium metal

- as a catalyst in catalytic converters

**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.pl](mailto:kamil.kozub@metraco.pl)Details 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.

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**SECTION 2: Hazards identification**

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**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.

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**SECTION 3: Composition/information on ingredients**

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**3.1. Substances**Ammonium perrhenate  $\text{NH}_4\text{ReO}_4$  – min. 99,9%.**3.2. Mixtures**

Not relevant.

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**SECTION 4: First aid measures**

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**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.

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**SECTION 5: Firefighting measures**

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**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**

During fire hazardous products of decomposition: ammonia (NH<sub>3</sub>) and nitric oxides (NO<sub>x</sub>) may be released.

**5.3. Advice for firefighters**

Wear self contained breathing apparatus for firefighting if necessary.

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**SECTION 6: Accidental release measures**

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**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.

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**SECTION 7: Handling and storage**

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**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. Keep away from heat, sparks and flame.

**7.3. Specific end use(s)**

Not relevant.

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**SECTION 8: Exposure controls/personal protection**

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**8.1. Control parameters**

Not relevant.

**8.2. Exposure controls**

Not relevant.

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**SECTION 9: Physical and chemical properties**

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**9.1. Information on basic physical and chemical properties**

a) appearance – solid, white powder

b) odour – not perceptible

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- c) pH – 7,1 (aqueous solution at 20 °C)
- d) flammability – not flammable
- e) explosive properties – not explosive
- f) relative density – 3,97 g/cm<sup>3</sup>
- g) bulk density – 2,25 g/cm<sup>3</sup>
- h) solubility in water – 59,55 g/dm<sup>3</sup>
- i) decomposition temperature ~ 313 °C
- j) oxidizing properties – not oxidizing solid

**9.2. Other information**No data

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**SECTION 10: Stability and reactivity**

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**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**

Avoid temperature above 140 °C.

**10.5. Incompatible materials**

Substance is compatible with most widely used materials.

**10.6. Hazardous decomposition products**Ammonia (NH<sub>3</sub>) and nitric oxides (NO<sub>x</sub>).

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**SECTION 11: Toxicological information**

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**11.1. Information on toxicological effects**

(a) acute toxicity

Not classified as toxic.

(b) skin corrosion/irritation

Not classified as skin corrosive/irritant.

(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.

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## **SECTION 12: Ecological information**

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### **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.

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## **SECTION 13: Disposal considerations**

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### **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.

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## **SECTION 14: Transport information**

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### **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.

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## **SECTION 15: Regulatory information**

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

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Not relevant.

**15.2. Chemical safety assessment**

Chemical safety assessment has not been performed yet.

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**SECTION 16: Other information**

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The substance has been pre-registered in the European Chemicals Agency according to Regulation (EC) No 1907/2006 (REACH) under the number: **05-2114630221-67-0000**.