MATERION

PRODUCT INFORMATION SHEET

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

1.1. Product identifier

Name of the substance Rhenium Product

Identification number 7440-15-5 (CAS number)

Synonyms None. **Document number** 127

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

Identified usesNot available.Uses advised againstNone known.

1.3. Details of the supplier of the product information sheet

Supplier

Company name Materion Advanced Materials Group

Address 42 Mt. Ebo Road South Brewster, NY 10509

United States

Division

Telephone Supplier Phone 1+845.279.0900

e-mail Not available. **Contact person** Not available.

1.4. Emergency telephone Chemtrec 1+703.527.3887

numbe

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification according to Regulation (EC) No 1272/2008 as amended

Hazard summary

Physical hazards Not classified for physical hazards. **Health hazards** Not classified for health hazards.

Environmental hazards Not classified for hazards to the environment.

Specific hazardsNot available.Main symptomsNot available.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains:RheniumHazard pictogramsNone.Signal wordNone.

Hazard statements The substance does not meet the criteria for classification.

Precautionary statements

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Supplemental label None.

information

2.3. Other hazards None known.

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SECTION 3: Composition/information on ingredients

3.1. Substances

General information

Chemical name % CAS-No. / EC **REACH Registration No.** INDEX No. **Notes** No.

Rhenium 99,9 - 100 7440-15-5

231-124-5

Classification: DSD: -

CLP:

SECTION 4: First aid measures

General information Not available.

4.1. Description of first aid measures

Inhalation Not available. Skin contact Not available. **Eye contact** Not available. **Ingestion** Not available. 4.2. Most important Not available.

symptoms and effects, both

acute and delayed

4.3. Indication of any Not available.

immediate medical attention and special treatment

needed

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

Suitable extinguishing Not available.

media

Not available. Unsuitable extinguishing

media

5.2. Special hazards arising Not available.

from the substance or

mixture

5.3. Advice for firefighters

Special protective equipment for firefighters

Not available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Not available.

For non-emergency

personnel

For emergency

Not available. responders

6.2. Environmental precautions

Not available.

6.3. Methods and material for

containment and cleaning up

Not available.

6.4. Reference to other

sections

Not available.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Not available.

7.2. Conditions for safe

Not available.

storage, including any incompatibilities

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

No biological exposure limits noted for the ingredient(s). **Biological limit values**

Recommended monitoring

procedures

Not available.

Derived no-effect level

(DNEL)

Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering

Not available.

controls

Individual protection measures, such as personal protective equipment

General information Not available. **Eye/face protection** Not available.

Skin protection

- Hand protection Not available. - Other Not available. Not available. Respiratory protection Not available. Thermal hazards **Hygiene measures** Not available. **Environmental exposure** Not available.

controls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Solid. Physical state

Form Not available. Colour Not available. Odour Not applicable. **Odour threshold** Not available. Not available. рH Melting point/freezing point Not available. Initial boiling point and

boiling range

Not applicable.

Flash point Not available. Not available. **Evaporation rate** Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit -

Not available.

upper (%)

< 0,0000001 kPa at 25 °C Vapour pressure

Not available. Vapour density Relative density Not available.

Solubility(ies)

Not available. Solubility (water) Not available. Solubility (other) **Partition coefficient** Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

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Decomposition temperature Not available. Not available. **Viscosity Explosive properties** Not available. **Oxidizing properties** Not available.

9.2. Other information

Molecular formula Re

SECTION 10: Stability and reactivity

10.1. Reactivity Not available. 10.2. Chemical stability Not available. 10.3. Possibility of hazardous Not available.

reactions

10.4. Conditions to avoid Not available. 10.5. Incompatible materials Not available. Not available. 10.6. Hazardous

decomposition products

SECTION 11: Toxicological information

General information Not available. Information on likely routes of exposure

Inhalation Not available. Skin contact Not available. **Eye contact** Not available. Not available. **Ingestion** Not available. **Symptoms**

11.1. Information on toxicological effects

No data available. **Acute toxicity** Skin corrosion/irritation Not available. Serious eye damage/eye Not available.

irritation

Respiratory sensitisation Not available. Skin sensitisation Not available. Germ cell mutagenicity Not available. Carcinogenicity Not available. Not available. Reproductive toxicity Specific target organ toxicity Not available.

- single exposure

Specific target organ toxicity

- repeated exposure

Not available.

Aspiration hazard Not available. Mixture versus substance Not available.

information

Other information Not available.

SECTION 12: Ecological information

No toxicity data noted for the ingredient(s). 12.1. Toxicity

12.2. Persistence and Not available.

degradability

12.3. Bioaccumulative Not available.

potential

Partition coefficient Not available.

n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil Not available.

12.5. Results of PBT Not a PBT or vPvB substance or mixture.

and vPvB assessment

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Not available. Contaminated packaging Not available. **EU** waste code Not available.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

SECTION 15: Regulatory information

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I, as amended Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II, as amended Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use Not regulated.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Not listed.

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Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

Not listed.

Directive 94/33/EC on the protection of young people at work, as amended

Not listed.

National regulations Not available. 15.2. Chemical safety Not available.

assessment

SECTION 16: Other information

List of abbreviations Not available. References Not available. Information on evaluation Not available.

method leading to the classification of mixture

Full text of any statements or None.

R-phrases and H-statements under Sections 2 to 15

Revision information None.

Training information Not available.

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