# MATERION

# PRODUCT INFORMATION SHEET

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

1.1. Product identifier

Name of the substance **Platinum** 

**Identification number** 7440-06-4 (CAS number)

**Synonyms** None. **Document number** 123

**Issue date** 20-July-2015

**Version number** 02

Supersedes date 20-July-2015

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

**Identified uses** Not available. Uses advised against None 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

number

### **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 hazards** Not available.

2.2. Label elements

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

Platinum **Contains: Hazard pictograms** None. Signal word None

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

**Precautionary statements** 

**Prevention** Not available. Response Not available. Not available. **Storage Disposal** Not 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 No.	REACH Registration No.	INDEX No.	Notes
Platinum		100 - 100	7440-06-4 231-116-1	-	-	#
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

## **SECTION 5: Firefighting measures**

**General fire hazards** Not available.

5.1. Extinguishing media

Suitable extinguishing

media

Not available.

**Unsuitable extinguishing** 

media

mixture

Not available.

Not available.

5.2. Special hazards arising from the substance or

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

For non-emergency

personnel

Not available.

For emergency responders

Not available.

6.2. Environmental

Not available.

precautions

Not available.

6.3. Methods and material for containment and cleaning up

Not available.

6.4. Reference to other sections

# **SECTION 7: Handling and storage**

7.1. Precautions for safe

Not available.

handling

7.2. Conditions for safe storage, including any incompatibilities

Not available.

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

### 8.1. Control parameters

# **Occupational exposure limits**

Austria. MAK List, OEL Ordinance ( Material	Туре	Value	Form
Platinum C <b>omponents</b>	MAK <b>Type</b>	1 mg/m3 <b>Value</b>	Inhalable fraction. <b>Form</b>
Platinum (CAS 7440-06-4)	MAK	1 mg/m3	Inhalable fraction.
Belgium. Exposure Limit Values. Material	Туре	Value	
Platinum	TWA	1 mg/m3	
Components	Туре	Value	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
Bulgaria. OELs. Regulation No 13 o	n protection of workers a	gainst risks of exposure to	chemical agents at worl
Material	Туре	Value	
Platinum	TWA	1 mg/m3	
Components	Туре	Value	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
Croatia. Dangerous Substance Expo 13/09	osure Limit Values in the	Workplace (ELVs), Annexes	1 and 2, Narodne Novin
Material	Туре	Value	
Platinum	MAC	1 mg/m3	
Components	Туре	Value	
Platinum (CAS 7440-06-4)	MAC	1 mg/m3	
Czech Republic. OELs. Government Material	Decree 361 Type	Value	
Platinum	Ceiling	1 mg/m3	
_	TWA	0,5 mg/m3	
Components	Туре	Value	
Platinum (CAS 7440-06-4)	Ceiling TWA	1 mg/m3	
Denmark. Exposure Limit Values	IVVA	0,5 mg/m3	
Material	Туре	Value	Form
Platinum	TLV	1 mg/m3	Dust.
Components	Туре	Value	Form
Platinum (CAS 7440-06-4)	TLV	1 mg/m3	Dust.
Estonia. OELs. Occupational Exposu	re Limits of Hazardous S	ubstances. (Annex of Regu	lation No. 293 of 18
September 2001)	_		
Material	Туре	Value	
Platinum C <b>omponents</b>	TWA <b>Type</b>	1 mg/m3 <b>Value</b>	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
Finland. Workplace Exposure Limit Material	s Type	Value	
Platinum	TWA	1 mg/m3	
Components	Туре	Value	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
France. Threshold Limit Values (VL		J.	e, INRS ED 984
Material			
		1 mg/m?	
Material Platinum Components	VME <b>Type</b>	1 mg/m3 <b>Value</b>	

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Germany. TRGS 900, Limit Value Material	es in the Ambient Air at the Type	Workplace Value	Form
Platinum <b>Components</b>	AGW <b>Type</b>	1 mg/m3 <b>Value</b>	Inhalable fraction. <b>Form</b>
Platinum (CAS 7440-06-4)	AGW	1 mg/m3	Inhalable fraction.
Greece. OELs (Decree No. 90/19 Material	999, as amended) Type	Value	
Platinum <b>Components</b>	TWA <b>Type</b>	5 mg/m3 <b>Value</b>	
Platinum (CAS 7440-06-4)	TWA	5 mg/m3	
Hungary. OELs. Joint Decree on Material	Chemical Safety of Workpla Type	<i>5,</i>	
 Platinum	TWA	1 mg/m3	
Components	Туре	Value	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
Iceland. OELs. Regulation 154/	1999 on occupational expos	<del>-</del> -	
Material	Туре	Value	Form
Platinum	TWA	1 mg/m3	Dust.
Components	Туре	Value	Form
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	Dust.
Ireland. Occupational Exposure Material	Limits Type	Value	
Platinum <b>Components</b>	TWA <b>Type</b>	1 mg/m3 <b>Value</b>	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
Italy. Occupational Exposure Li Material	nits Type	Value	
 Platinum	TWA	1 mg/m3	
Components	Туре	Value	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
Latvia. OELs. Occupational expo	sure limit values of chemica Type	<del>-</del> -	onment
Platinum <b>Components</b>	TWA <b>Type</b>	1 mg/m3 <b>Value</b>	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
Lithuania. OELs. Limit Values fo Material	or Chemical Substances, Gen Type	eral Requirements Value	
Platinum <b>Components</b>	TWA <b>Type</b>	1 mg/m3 <b>Value</b>	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
Luxembourg. Binding Occupation Material		<del>-</del> -	
 Platinum	TWA	1 mg/m3	
Components	Туре	Value	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
Malta. OELs. Occupational Expo 424), Schedules I and V)	sure Limit Values (L.N. 227.	of Occupational Health and	I Safety Authority Act (C
Material	Туре	Value	
Platinum <b>Components</b>	TWA <b>Type</b>	1 mg/m3 <b>Value</b>	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	

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Material	Туре	Value	
Platinum	TWA	1 mg/m3	
Components	Туре	Value	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
Poland. MACs. Minister of Labour a Morking Environment			centrations and Intensition
Material	Туре	Value	
Platinum	TWA	1 mg/m3	
Components	Туре	Value	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
Portugal. OELs. Decree-Law n. 290 Material	Type	Value	
Platinum	TWA	1 mg/m3	
Components	Туре	Value	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
Portugal. VLEs. Norm on occupatio Material	onal exposure to chemical Type	agents (NP 1796) Value	
Platinum	TWA	1 mg/m3	
Components	Туре	Value	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
Slovakia. OELs. Regulation No. 300 Material	0/2007 concerning protec Type	tion of health in work with Value	chemical agents
Platinum	TWA	1 mg/m3	
lacinam			
	Туре	Value	
Components Platinum (CAS 7440-06-4)	TWA	1 mg/m3	ocura to chamicals while
Components  Platinum (CAS 7440-06-4)  Slovenia. OELs. Regulations conceworking (Official Gazette of the Re	TWA rning protection of worke	1 mg/m3	osure to chemicals while
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Components  Platinum (CAS 7440-06-4)  Slovenia. OELs. Regulations conceworking (Official Gazette of the Rewaterial  Platinum  Components  Platinum (CAS 7440-06-4)  Spain. Occupational Exposure Limitaterial  Platinum	TWA  rning protection of worke epublic of Slovenia)  Type  TWA  Type  TWA  Type  TWA  Type  TWA  Type	1 mg/m3 ers against risks due to expo  Value  1 mg/m3  Value  1 mg/m3	osure to chemicals while
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Components  Platinum (CAS 7440-06-4)  Slovenia. OELs. Regulations conce working (Official Gazette of the Remark Material  Platinum  Components  Platinum (CAS 7440-06-4)  Spain. Occupational Exposure Limit Material  Platinum  Components  Platinum (CAS 7440-06-4)  Sweden. Occupational Exposure Limit Material  Platinum (CAS 7440-06-4)  Sweden. Occupational Exposure Limit Material  Platinum  Components  Platinum  Components  Platinum (CAS 7440-06-4)  Switzerland. SUVA Grenzwerte am Material  Platinum  Components  Platinum  Components	TWA rning protection of worker epublic of Slovenia) Type TWA Type TWA its Type TWA Type	1 mg/m3  Irs against risks due to expo  Value  1 mg/m3  Value	Form Total dust. Form Total dust. Form Inhalable dust. Form
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Components  Platinum (CAS 7440-06-4)  Slovenia. OELs. Regulations conce working (Official Gazette of the Regulation of t	TWA  rning protection of worker epublic of Slovenia)  Type  TWA Type  TWA  Type  TWA Type  TWA Type  TWA Type  TWA  Type  TWA Type  TWA Type  TWA Type  TWA Type  TWA Type  TWA Type  TWA Type  TWA Type  TWA Type  TWA Type  TWA Type  TWA Type  TWA Type  TWA Type  TWA Type  TWA Type  TWA Type  TWA Type  TWA Type	1 mg/m3  rs against risks due to expo  Value  1 mg/m3	Form Total dust. Form Total dust. Form Inhalable dust. Form

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#### EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU **Material Type Value**

TWA 1 mg/m3 **Platinum Value** Components **Type** TWA Platinum (CAS 7440-06-4) 1 mg/m3

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

**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

Eye/face protection

Not available.

Skin protection

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

Melting point/freezing point Initial boiling point and

3825 °C (6917 °F)

1768,4 °C (3215,12 °F)

boiling range

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 Not available. **Relative density** 

Solubility(ies)

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

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available.

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9.2. Other information

**Density** 21,44 g/cm3 estimated

Molecular formula

Molecular weight 195,08 g/mol Specific gravity 21,45

### **SECTION 10: Stability and reactivity**

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

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

**Acute toxicity** No data available. 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. Reproductive toxicity Not available. Specific target organ toxicity Not available.

- single exposure

Specific target organ toxicity

- repeated exposure

Not available.

Not available. **Aspiration hazard** Not available. Mixture versus substance

information

Not available. Other information

### **SECTION 12: Ecological information**

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

12.2. Persistence and

degradability

Not available.

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.

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12.5. Results of PBT

Not a PBT or vPvB substance or mixture.

and vPvB assessment

12.6. Other adverse effects Not available.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Not available. Residual waste 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.

#### TATA

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

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 Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

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

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. Not available. Information on evaluation

method leading to the classification of mixture

**Training information** Not available. **Further information** Not available.

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