



# SAFETY DATA SHEET

**MATERION**

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

### 1.1. Product identifier

**Name of the substance** Platinum Powder  
**Identification number** 7440-06-4 (CAS number)  
**Synonyms** None.  
**Document number** WPP  
**Issue date** 28-April-2015  
**Version number** 02  
**Revision date** 07-July-2015  
**Supersedes date** 28-April-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 safety data sheet

#### Supplier

**Company name** Materion Advanced Materials Technologies and Services Inc.  
**Address** 2978 Main Street  
Buffalo, NY 14214  
United States  
**Division** Buffalo  
**Telephone** 716-837-1000  
**e-mail** Not available.  
**Contact person** Not available.

**1.4. Emergency telephone number** 800-424-9300 Chemtrec

## 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**

**Contains:** Platinum  
**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.  
**Storage** Not available.  
**Disposal** Not available.

**Supplemental label information** None.

**2.3. Other hazards** None known.

## 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	7440-06-4 231-116-1	-	-	#
<b>Classification:</b>					
<b>DSD:</b>	-				
<b>CLP:</b>	-				

## 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 symptoms and effects, both acute and delayed Not available.

4.3. Indication of any immediate medical attention and special treatment needed Not available.

## SECTION 5: Firefighting measures

General fire hazards Not available.

### 5.1. Extinguishing media

Suitable extinguishing media Not available.

Unsuitable extinguishing media Not available.

5.2. Special hazards arising from the substance or mixture Not available.

### 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 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 storage, including any incompatibilities Not available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits****Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001**

<b>Material</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Platinum Powder	MAK	1 mg/m <sup>3</sup>	Inhalable fraction.
<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Platinum (CAS 7440-06-4)	MAK	1 mg/m <sup>3</sup>	Inhalable fraction.

**Belgium. Exposure Limit Values.**

<b>Material</b>	<b>Type</b>	<b>Value</b>
Platinum Powder	TWA	1 mg/m <sup>3</sup>
<b>Components</b>	<b>Type</b>	<b>Value</b>
Platinum (CAS 7440-06-4)	TWA	1 mg/m <sup>3</sup>

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

<b>Material</b>	<b>Type</b>	<b>Value</b>
Platinum Powder	TWA	1 mg/m <sup>3</sup>
<b>Components</b>	<b>Type</b>	<b>Value</b>
Platinum (CAS 7440-06-4)	TWA	1 mg/m <sup>3</sup>

**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09**

<b>Material</b>	<b>Type</b>	<b>Value</b>
Platinum Powder	MAC	1 mg/m <sup>3</sup>
<b>Components</b>	<b>Type</b>	<b>Value</b>
Platinum (CAS 7440-06-4)	MAC	1 mg/m <sup>3</sup>

**Czech Republic. OELs. Government Decree 361**

<b>Material</b>	<b>Type</b>	<b>Value</b>
Platinum Powder	Ceiling	1 mg/m <sup>3</sup>
<b>Components</b>	<b>Type</b>	<b>Value</b>
	TWA	0,5 mg/m <sup>3</sup>
Platinum (CAS 7440-06-4)	Ceiling	1 mg/m <sup>3</sup>
	TWA	0,5 mg/m <sup>3</sup>

**Denmark. Exposure Limit Values**

<b>Material</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Platinum Powder	TLV	1 mg/m <sup>3</sup>	Dust.
<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Platinum (CAS 7440-06-4)	TLV	1 mg/m <sup>3</sup>	Dust.

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

<b>Material</b>	<b>Type</b>	<b>Value</b>
Platinum Powder	TWA	1 mg/m <sup>3</sup>
<b>Components</b>	<b>Type</b>	<b>Value</b>
Platinum (CAS 7440-06-4)	TWA	1 mg/m <sup>3</sup>

**Finland. Workplace Exposure Limits**

<b>Material</b>	<b>Type</b>	<b>Value</b>
Platinum Powder	TWA	1 mg/m <sup>3</sup>
<b>Components</b>	<b>Type</b>	<b>Value</b>
Platinum (CAS 7440-06-4)	TWA	1 mg/m <sup>3</sup>

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

<b>Material</b>	<b>Type</b>	<b>Value</b>
Platinum Powder	VME	1 mg/m <sup>3</sup>
<b>Components</b>	<b>Type</b>	<b>Value</b>
Platinum (CAS 7440-06-4)	VME	1 mg/m <sup>3</sup>

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

<b>Material</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Platinum Powder <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.
<b>Greece. OELs (Decree No. 90/1999, as amended)</b>			
<b>Material</b>	<b>Type</b>	<b>Value</b>	
Platinum Powder <b>Components</b>	TWA <b>Type</b>	5 mg/m3 <b>Value</b>	
Platinum (CAS 7440-06-4)	TWA	5 mg/m3	
<b>Hungary. OELs. Joint Decree on Chemical Safety of Workplaces</b>			
<b>Material</b>	<b>Type</b>	<b>Value</b>	
Platinum Powder <b>Components</b>	TWA <b>Type</b>	1 mg/m3 <b>Value</b>	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
<b>Iceland. OELs. Regulation 154/1999 on occupational exposure limits</b>			
<b>Material</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Platinum Powder <b>Components</b>	TWA <b>Type</b>	1 mg/m3 <b>Value</b>	Dust. <b>Form</b>
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	Dust.
<b>Ireland. Occupational Exposure Limits</b>			
<b>Material</b>	<b>Type</b>	<b>Value</b>	
Platinum Powder <b>Components</b>	TWA <b>Type</b>	1 mg/m3 <b>Value</b>	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
<b>Italy. Occupational Exposure Limits</b>			
<b>Material</b>	<b>Type</b>	<b>Value</b>	
Platinum Powder <b>Components</b>	TWA <b>Type</b>	1 mg/m3 <b>Value</b>	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
<b>Latvia. OELs. Occupational exposure limit values of chemical substances in work environment</b>			
<b>Material</b>	<b>Type</b>	<b>Value</b>	
Platinum Powder <b>Components</b>	TWA <b>Type</b>	1 mg/m3 <b>Value</b>	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
<b>Lithuania. OELs. Limit Values for Chemical Substances, General Requirements</b>			
<b>Material</b>	<b>Type</b>	<b>Value</b>	
Platinum Powder <b>Components</b>	TWA <b>Type</b>	1 mg/m3 <b>Value</b>	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
<b>Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A</b>			
<b>Material</b>	<b>Type</b>	<b>Value</b>	
Platinum Powder <b>Components</b>	TWA <b>Type</b>	1 mg/m3 <b>Value</b>	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	
<b>Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)</b>			
<b>Material</b>	<b>Type</b>	<b>Value</b>	
Platinum Powder <b>Components</b>	TWA <b>Type</b>	1 mg/m3 <b>Value</b>	
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	

**Netherlands. OELs (binding)**

<b>Material</b>	<b>Type</b>	<b>Value</b>
Platinum Powder	TWA	1 mg/m <sup>3</sup>
<b>Components</b>	<b>Type</b>	<b>Value</b>
Platinum (CAS 7440-06-4)	TWA	1 mg/m <sup>3</sup>

**Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment**

<b>Material</b>	<b>Type</b>	<b>Value</b>
Platinum Powder	TWA	1 mg/m <sup>3</sup>
<b>Components</b>	<b>Type</b>	<b>Value</b>
Platinum (CAS 7440-06-4)	TWA	1 mg/m <sup>3</sup>

**Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)**

<b>Material</b>	<b>Type</b>	<b>Value</b>
Platinum Powder	TWA	1 mg/m <sup>3</sup>
<b>Components</b>	<b>Type</b>	<b>Value</b>
Platinum (CAS 7440-06-4)	TWA	1 mg/m <sup>3</sup>

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

<b>Material</b>	<b>Type</b>	<b>Value</b>
Platinum Powder	TWA	1 mg/m <sup>3</sup>
<b>Components</b>	<b>Type</b>	<b>Value</b>
Platinum (CAS 7440-06-4)	TWA	1 mg/m <sup>3</sup>

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

<b>Material</b>	<b>Type</b>	<b>Value</b>
Platinum Powder	TWA	1 mg/m <sup>3</sup>
<b>Components</b>	<b>Type</b>	<b>Value</b>
Platinum (CAS 7440-06-4)	TWA	1 mg/m <sup>3</sup>

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

<b>Material</b>	<b>Type</b>	<b>Value</b>
Platinum Powder	TWA	1 mg/m <sup>3</sup>
<b>Components</b>	<b>Type</b>	<b>Value</b>
Platinum (CAS 7440-06-4)	TWA	1 mg/m <sup>3</sup>

**Spain. Occupational Exposure Limits**

<b>Material</b>	<b>Type</b>	<b>Value</b>
Platinum Powder	TWA	1 mg/m <sup>3</sup>
<b>Components</b>	<b>Type</b>	<b>Value</b>
Platinum (CAS 7440-06-4)	TWA	1 mg/m <sup>3</sup>

**Sweden. Occupational Exposure Limit Values**

<b>Material</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Platinum Powder	TWA	1 mg/m <sup>3</sup>	Total dust.
<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Platinum (CAS 7440-06-4)	TWA	1 mg/m <sup>3</sup>	Total dust.

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

<b>Material</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Platinum Powder	TWA	1 mg/m <sup>3</sup>	Inhalable dust.
<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Platinum (CAS 7440-06-4)	TWA	1 mg/m <sup>3</sup>	Inhalable dust.

**UK. EH40 Workplace Exposure Limits (WELs)**

<b>Material</b>	<b>Type</b>	<b>Value</b>
Platinum Powder	TWA	5 mg/m <sup>3</sup>
<b>Components</b>	<b>Type</b>	<b>Value</b>
Platinum (CAS 7440-06-4)	TWA	5 mg/m <sup>3</sup>

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

<b>Material</b>	<b>Type</b>	<b>Value</b>
Platinum Powder	TWA	1 mg/m <sup>3</sup>
<b>Components</b>	<b>Type</b>	<b>Value</b>
Platinum (CAS 7440-06-4)	TWA	1 mg/m <sup>3</sup>

**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 controls** Not available.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Not available.

**Skin protection**

- **Hand protection** Not available.

- **Other** Not available.

**Respiratory protection** Not available.

**Thermal hazards** Not available.

**Hygiene measures** Not available.

**Environmental exposure controls** Not available.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

**Physical state** Solid.

**Form** Powder.

**Colour** Not available.

**Odour** Not applicable.

**Odour threshold** Not available.

**pH** Not available.

**Melting point/freezing point** 1768,4 °C (3215,12 °F)

**Initial boiling point and boiling range** 3825 °C (6917 °F)

**Flash point** Not available.

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Vapour pressure** < 0,0000001 kPa at 25 °C

**Vapour density** Not available.

**Relative density** Not available.

**Solubility(ies)**

**Solubility (water)** Insoluble

**Solubility (other)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

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<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not available.

## 9.2. Other information

<b>Density</b>	21,44 g/cm <sup>3</sup> estimated
<b>Molecular formula</b>	Pt
<b>Molecular weight</b>	195,08 g/mol
<b>Specific gravity</b>	21,45

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Not available.
<b>10.2. Chemical stability</b>	Not available.
<b>10.3. Possibility of hazardous reactions</b>	Not available.
<b>10.4. Conditions to avoid</b>	Not available.
<b>10.5. Incompatible materials</b>	Not available.
<b>10.6. Hazardous decomposition products</b>	Not available.

## SECTION 11: Toxicological information

<b>General information</b>	Not available.
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### Information on likely routes of exposure

<b>Inhalation</b>	Not available.
<b>Skin contact</b>	Not available.
<b>Eye contact</b>	Not available.
<b>Ingestion</b>	Not available.

<b>Symptoms</b>	Not available.
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### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	No data available.
<b>Skin corrosion/irritation</b>	Not available.
<b>Serious eye damage/eye irritation</b>	Not available.
<b>Respiratory sensitisation</b>	Not available.
<b>Skin sensitisation</b>	Not available.
<b>Germ cell mutagenicity</b>	Not available.
<b>Carcinogenicity</b>	Not available.
<b>Reproductive toxicity</b>	Not available.
<b>Specific target organ toxicity - single exposure</b>	Not available.
<b>Specific target organ toxicity - repeated exposure</b>	Not available.
<b>Aspiration hazard</b>	Not available.
<b>Mixture versus substance information</b>	Not available.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	No toxicity data noted for the ingredient(s).
<b>12.2. Persistence and degradability</b>	Not available.
<b>12.3. Bioaccumulative potential</b>	Not available.
<b>Partition coefficient n-octanol/water (log K<sub>ow</sub>)</b>	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	Not available.

**12.5. Results of PBT and vPvB assessment** Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects** Not available.

## **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**

Not listed.

**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**

Not listed.

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

Not listed.

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

Not listed.

**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**

Not listed.

**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.



## Other EU regulations

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

Not listed.

### 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 assessment** Not available.

## SECTION 16: Other information

**List of abbreviations** Not available.

**References** Not available.

**Information on evaluation method leading to the classification of mixture** Not available.

**Full text of any statements or R-phrases and H-statements under Sections 2 to 15** None.

**Revision information** None.

**Training information** Not available.