



SAFETY DATA SHEET

MATERION

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

1.1. Product identifier

Name of the substance	Pure Platinum Products
Identification number	7440-06-4 (CAS number)
Synonyms	None.
Document number	W63
Issue date	05-May-2015
Version number	02
Revision date	07-July-2015
Supersedes date	05-May-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
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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	99 - 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 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**

Material	Type	Value	Form
Pure Platinum Products	MAK	1 mg/m ³	Inhalable fraction.
Components	Type	Value	Form
Platinum (CAS 7440-06-4)	MAK	1 mg/m ³	Inhalable fraction.

Belgium. Exposure Limit Values.

Material	Type	Value
Pure Platinum Products	TWA	1 mg/m ³
Components	Type	Value
Platinum (CAS 7440-06-4)	TWA	1 mg/m ³

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

Material	Type	Value
Pure Platinum Products	TWA	1 mg/m ³
Components	Type	Value
Platinum (CAS 7440-06-4)	TWA	1 mg/m ³

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

Material	Type	Value
Pure Platinum Products	MAC	1 mg/m ³
Components	Type	Value
Platinum (CAS 7440-06-4)	MAC	1 mg/m ³

Czech Republic. OELs. Government Decree 361

Material	Type	Value
Pure Platinum Products	Ceiling	1 mg/m ³
Components	Type	Value
	TWA	0,5 mg/m ³
Platinum (CAS 7440-06-4)	Ceiling	1 mg/m ³
	TWA	0,5 mg/m ³

Denmark. Exposure Limit Values

Material	Type	Value	Form
Pure Platinum Products	TLV	1 mg/m ³	Dust.
Components	Type	Value	Form
Platinum (CAS 7440-06-4)	TLV	1 mg/m ³	Dust.

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

Material	Type	Value
Pure Platinum Products	TWA	1 mg/m ³
Components	Type	Value
Platinum (CAS 7440-06-4)	TWA	1 mg/m ³

Finland. Workplace Exposure Limits

Material	Type	Value
Pure Platinum Products	TWA	1 mg/m ³
Components	Type	Value
Platinum (CAS 7440-06-4)	TWA	1 mg/m ³

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

Material	Type	Value
Pure Platinum Products	VME	1 mg/m ³
Components	Type	Value
Platinum (CAS 7440-06-4)	VME	1 mg/m ³

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

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

Netherlands. OELs (binding)

Material	Type	Value
Pure Platinum Products	TWA	1 mg/m ³
Components	Type	Value
Platinum (CAS 7440-06-4)	TWA	1 mg/m ³

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

Material	Type	Value
Pure Platinum Products	TWA	1 mg/m ³
Components	Type	Value
Platinum (CAS 7440-06-4)	TWA	1 mg/m ³

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

Material	Type	Value
Pure Platinum Products	TWA	1 mg/m ³
Components	Type	Value
Platinum (CAS 7440-06-4)	TWA	1 mg/m ³

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

Material	Type	Value
Pure Platinum Products	TWA	1 mg/m ³
Components	Type	Value
Platinum (CAS 7440-06-4)	TWA	1 mg/m ³

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

Material	Type	Value
Pure Platinum Products	TWA	1 mg/m ³
Components	Type	Value
Platinum (CAS 7440-06-4)	TWA	1 mg/m ³

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

Material	Type	Value
Pure Platinum Products	TWA	1 mg/m ³
Components	Type	Value
Platinum (CAS 7440-06-4)	TWA	1 mg/m ³

Spain. Occupational Exposure Limits

Material	Type	Value
Pure Platinum Products	TWA	1 mg/m ³
Components	Type	Value
Platinum (CAS 7440-06-4)	TWA	1 mg/m ³

Sweden. Occupational Exposure Limit Values

Material	Type	Value	Form
Pure Platinum Products	TWA	1 mg/m ³	Total dust.
Components	Type	Value	Form
Platinum (CAS 7440-06-4)	TWA	1 mg/m ³	Total dust.

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Material	Type	Value	Form
Pure Platinum Products	TWA	1 mg/m ³	Inhalable dust.
Components	Type	Value	Form
Platinum (CAS 7440-06-4)	TWA	1 mg/m ³	Inhalable dust.

UK. EH40 Workplace Exposure Limits (WELs)

Material	Type	Value
Pure Platinum Products	TWA	5 mg/m ³
Components	Type	Value
Platinum (CAS 7440-06-4)	TWA	5 mg/m ³

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

Material	Type	Value
Pure Platinum Products	TWA	1 mg/m ³
Components	Type	Value
Platinum (CAS 7440-06-4)	TWA	1 mg/m ³

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 Not available.

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.

Viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.

9.2. Other information

Density	21,44 g/cm ³ estimated
Molecular formula	Pt
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.
10.3. Possibility of hazardous reactions	Not available.
10.4. Conditions to avoid	Not available.
10.5. Incompatible materials	Not available.
10.6. Hazardous decomposition products	Not available.

SECTION 11: Toxicological information

General information	Not available.
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Information on likely routes of exposure

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

Symptoms	Not available.
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11.1. Information on toxicological effects

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

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 potential	Not available.
Partition coefficient n-octanol/water (log K_{ow})	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	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.