



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 231-116-1 (EC number)
Registration number -
Document number W63
Synonyms None.
Issue date 05-May-2015
Revision date 07-July-2015

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

Supersedes date 05-May-2015

Version number 02

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

Identified uses Not available.
Uses advised against None known.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard summary 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:	-				

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.

7.3. Specific end use(s) 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
	TWA	0,5 mg/m ³
Components	Type	Value
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

Regulatory status: Indicative limit (VL)

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

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

Regulatory status: Indicative limit (VL)

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

Material	Type	Value	Form
Pure Platinum Products	AGW	1 mg/m3	Inhalable fraction.
Components	Type	Value	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	TWA	5 mg/m3
Components	Type	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	TWA	1 mg/m3
Components	Type	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	TWA	1 mg/m3	Dust.
Components	Type	Value	Form
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	Dust.

Ireland. Occupational Exposure Limits

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

Italy. Occupational Exposure Limits

Material	Type	Value
Pure Platinum Products	TWA	1 mg/m3
Components	Type	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	TWA	1 mg/m3
Components	Type	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	TWA	1 mg/m3
Components	Type	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	TWA	1 mg/m3

Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A

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

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	TWA	1 mg/m ³

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

Platinum (CAS 7440-06-4)	TWA	1 mg/m ³
--------------------------	-----	---------------------

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

Platinum (CAS 7440-06-4)	TWA	1 mg/m ³
--------------------------	-----	---------------------

Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817

Material	Type	Value
Pure Platinum Products	TWA	1 mg/m ³

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

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

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

Platinum (CAS 7440-06-4)	TWA	1 mg/m ³
--------------------------	-----	---------------------

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Material	Type	Value
Pure Platinum Products	TWA	1 mg/m ³

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

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

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

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

Pure Platinum Products	TWA	1 mg/m ³
------------------------	-----	---------------------

Spain. Occupational Exposure Limits Components

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

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Material	Type	Value	Form
Pure Platinum Products	TWA	1 mg/m3	Total dust.

Components	Type	Value	Form
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	Total dust.

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Material	Type	Value	Form
Pure Platinum Products	TWA	1 mg/m3	Inhalable fraction.

Components	Type	Value	Form
Platinum (CAS 7440-06-4)	TWA	1 mg/m3	Inhalable fraction.

UK. EH40 Workplace Exposure Limits (WELs)

Material	Type	Value
Pure Platinum Products	TWA	5 mg/m3

Components	Type	Value
Platinum (CAS 7440-06-4)	TWA	5 mg/m3

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/m3

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

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

Recommended monitoring procedures Not available.

Derived no effect levels (DNELs) 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

General information Not available.

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 available.

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 available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	< 0,0000001 kPa (25 °C (77 °F))
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.
9.2. Other information	
Density	21,45 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.
Information on likely routes of exposure	
Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.
Ingestion	Not available.
Symptoms	Not available.
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

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

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 Kow) 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

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: 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 and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

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.

Restrictions on use

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

Not listed.

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.

Other EU regulations

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

Training information

Not available.

Disclaimer

This document has been prepared using data from sources considered to be technically reliable and the information is believed to be correct. Materion makes no warranties, expressed or implied, as to the accuracy of the information contained herein. Materion cannot anticipate all conditions under which this information and its products may be used and the actual conditions of use are beyond its control. The user is responsible to evaluate all available information when using this product for any particular use and to comply with all Federal, State, Provincial and Local laws, statutes and regulations.