

# SAFETY DATA SHEET

Issue date: 12-18-2018 Version #: 01

### 1. Chemical and company identification

Name of chemical (Product

name)

**Platinum Product** 

Company name Materion Advanced Materials Germany GmbH

**Address** Borsigstrasse 10

Alzenau 63755 Germany

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**Emergency telephone number** 49.60.23.91.82.0

Reference number G18

### 2. Hazards identification

#### **GHS** classification

The product is not classified according to GHS.

#### **GHS** label elements

**Symbols** None. Signal words None

Hazard statement The material as sold in solid form is generally not considered hazardous. However, if the process

involves grinding, melting, cutting or any other process that causes a release of dust or fumes,

hazardous levels of airborne particulate could be generated.

**Precautionary statement** 

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not

result in classification

None known.

Supplemental information For further information, please contact the Product Stewardship Department at +1.216.383.4019.

### Main symptoms and emergency overview

The material as sold in solid form is generally not considered hazardous. However, if the process **Emergency overview** 

involves grinding, melting, cutting or any other process that causes a release of dust or fumes,

hazardous levels of airborne particulate could be generated.

### 3. Composition/information on ingredients

Substance or mixture Substance

Gazette notification

Components	CAS Number	ENCS no.	ISHL no.	Concentration (%)
Platinum Product	7440-06-4			100

Chemical formula Pt (7440-06-4)

4. First aid measures

If inhaled Call a physician if symptoms develop or persist.

If on skin Get medical attention if irritation develops and persists. Get medical attention if irritation develops and persists. If in eyes

If swallowed Get medical advice/attention if you feel unwell.

Most important None known

symptoms/effects, acute and

delayed

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Protection of first-aid

responders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire-fighting measures

**Extinguishing media** Powder. Dry sand. Use methods for the surrounding fire.

Extinguishing media to avoid None known.

This product is not flammable. Specific hazards

Special fire fighting procedures Use water spray to cool unopened containers.

Protection of fire-fighters Wear suitable protective equipment.

General fire hazards No unusual fire or explosion hazards noted.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

#### Accidental release measures

Personal precautions, protective

equipment and emergency

measures

Keep unnecessary personnel away.

**Environmental precautions** Methods or materials for

containment and cleaning up

Collect spillage. Collect spillage

# 7. Handling and storage

Handling

Technical measures (e.g.

Local and general

ventilation)

Provide adequate ventilation.

Safe handling advice

Contact avoidance measures

Observe good industrial hygiene practices.

Strong oxidizing agents. Acids. Chlorine.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking.

Storage

Safe storage conditions Store away from incompatible materials (see Section 10 of the SDS).

Safe packaging materials No special precautions are necessary beyond normal good hygiene practices. See Section 8 of

the SDS for additional personal protection advice when handling this product.

### 8. Exposure controls/personal protection

# Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

Material	Туре	Value
Platinum Product (CAS	TWA	1 mg/m3

7440-06-4)

**Exposure guidelines** This material does not have established exposure limits.

**Engineering measures** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates

> should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection Wear gloves to prevent metal cuts and skin abrasions during handling.

Eye protection Wear safety glasses with side shields (or goggles).

Skin and body protection Use personal protective equipment as required.

### Physical and chemical properties

**Appearance** 

Physical state Solid. Form Solid.

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Color Grey. Odor None.

Odor threshold Not applicable. pН Not applicable.

3215.12 °F (1768.4 °C) / Not applicable. Melting point/Freezing point

Boiling point, initial boiling point,

and boiling range

6917 °F (3825 °C)

Flash point

Combustion characteristics

Not applicable. None known.

(solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

Not applicable.

(%)

Flammability limit - upper

Not applicable.

(%)

Explosive limit - lower (%) Not applicable. Explosive limit - upper (%) Not applicable. Vapor pressure Not applicable. Vapor density Not applicable. **Evaporation rate** Not applicable.

Specific gravity Solubility(ies)

> Insoluble Solubility (water)

Partition coefficient

(n-octanol/water)

Not applicable.

Not applicable.

Auto-ignition temperature Not applicable. **Decomposition temperature** Not applicable. Viscosity (Coefficient of Not applicable.

viscosity)

Other information

**Density** 21.45 g/cm3 estimated

**Explosive properties** Not explosive.

Molecular formula Pt

Molecular weight 195.08 g/mol Oxidizing properties Not oxidizing Relative density Not applicable.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Acids. Chlorine.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Acute toxicity None known.

Skin corrosion/irritation Not relevant, due to the form of the product. Not likely, due to the form of the product. Serious eye damage/eye

irritation

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Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization Not a skin sensitizer.

Germ cell mutagenicity Not classified. Carcinogenicity Not classified. Reproductive toxicity Not classified. Specific target organ toxicity -Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

12. Ecological information

**Ecotoxicity** Not expected to be harmful to aquatic organisms.

Persistence and degradability No data is available on the degradability of this product.

**Bioaccumulation** No data available. Mobility in soil None known. Hazardous to the ozone layer No data available.

Other hazardous effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Dispose in accordance with all applicable regulations.

Residual waste Dispose of in accordance with local regulations.

Refer to manufacturer/supplier for information on recovery/recycling. Contaminated packaging

Local disposal regulations Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport information

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and

the IBC Code

National regulations Follow regulation in section 15 for domestic transportation.

15. Regulatory information

Industrial Safety and Health Act

Notifiable substances

PLATINUM AND PLATINUM SALTS, WATER-SOLUBLE Table 9 Ordinance No. 437

Labeling substances

PLATINUM (POWDER)

PLATINUM AND PLATINUM SALTS, WATER-SOLUBLE

Poisonous and Deleterious Substances Control Act

Specified poisonous substances

Not regulated.

Poisonous substances

Not regulated.

**Deleterious substances** 

Not regulated.

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Class I specified chemical substances

Not regulated.

Class II specified chemical substances

Not regulated.

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#### Monitoring chemical substances

Not regulated.

**Priority Assessment Chemical Substances (PACs)** 

Not regulated.

Reporting Exempted Substances

Not regulated.

Law concerning Pollutant Release and Transfer Register

Specified class 1 substances (substance name, ordinance number and content)

Not regulated.

Class 1 substances (substance name, ordinance number and content)

Not regulated.

Class 2 substances (substance name, ordinance number and content)

Not regulated.

Ship Safety Law, Dangerous Goods Marine Transport and

Not regulated.

Storage Rule

Air Law, Enforcement Rule

Not regulated.

Explosives Control Act
Not regulated.

### 16. Other information

Bibliography ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits

Japan Chemical Industry Association (JCIA) GHS Guideline, June 2012

JIS Z 7252:2014 Classification of chemicals based on "Globally Harmonized System of

Classification and Labelling of Chemicals (GHS)"

JIS Z 7253:2012 Hazard communication of chemicals based on GHS - Labelling and Safety Data

Sheet (SDS)

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Company name: Materion Advanced Materials Germany GmbH Product name: Platinum Product SDS JAF